TRINITY
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Environmental & Engineering Services

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February 22, 2013

Mr. Matthew Higginbotham
ERP Manager
27 SOCES/CEAN
506 N DL Ingram Blvd
Cannon AFB, NM 88103-5003

RE: **December 2011 Annual Ground Water Monitoring Report**
Melrose Air Force Range, New Mexico
USACE Contract No.: W9128F-10-D-0091, Task Order 006

Dear Mr. Higginbotham,

Enclosed for your review is the *December 2011 Annual Groundwater Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico.*

This report has been revised to generally conform to New Mexico Environment Department (NMED) *Position Paper, General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003* (New Mexico Environment Department, 2003) at NMEDs request. The report addresses recent commentary contained in Notice of Disapprovals issued by NMED on September 26, 2012 for the *December 2011 Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties,* and October 10, 2012 for the *December 2010 Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties.* The report also incorporates changes requested by NMED at a meeting conducted January 10, 2013 at their facility, where NMED, Cannon Air Force Base, and TRINITY personnel were present.

Also enclosed, please find *Response to New Mexico Environment Department Comments, Notice of Disapproval* (dated September 26, 2012), for the *December 2011 Annual Groundwater Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico* (Draft).

We appreciate the opportunity to work with Cannon Air Force Base and USACE to provide service to Melrose Air Force Range. If you have any questions or need further information, please call me at (850) 613-6800.

Sincerely,
Trinity Analysis & Development Corp.

Richard L. Burdine, PG
Senior Vice President

Attachment

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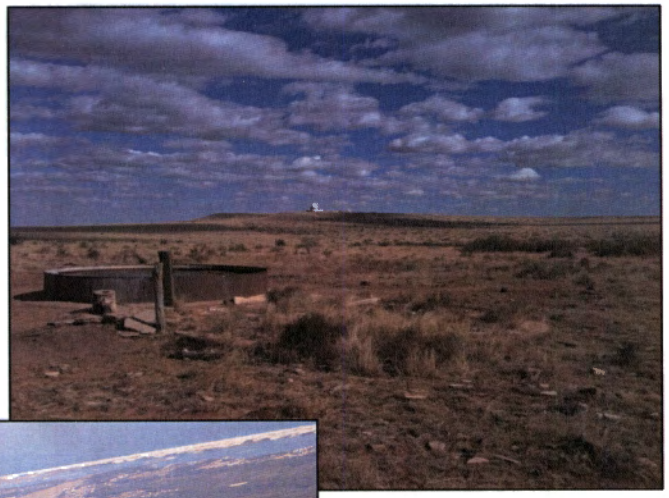
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico



Air Force Special Operations Command

27th Special Operations Wing

U.S. Army Corps of Engineers
Omaha District

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Environmental & Engineering Services

TITLE PAGE

DECEMBER 2011
ANNUAL GROUNDWATER
MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Cannon Air Force Base
Air Force Special Operations Command (AFSOC)
27th SOCES/CEANR
Cannon Air Force Base, NM 88103-5003

Prepared By:
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Under Contract To:
United States Army Corps of Engineers (USACE)
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Contract Number:
W9128F-10-D-0091, Task Order 0006

February 2013

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CERTIFICATION PAGE

DECEMBER 2011
ANNUAL GROUNDWATER
MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Air Force Special Operations Command
And
27th Special Operations Wing

Prepared By:
Trinity Analysis & Development Corp.
1002 N. Eglin Parkway
Shalimar, FL 32579
(850) 613-6800

Under Contract To:
United States Army Corps of Engineers (USACE)
Omaha District

I hereby submit that this Annual Groundwater Monitoring Report, December 2011, for the Melrose Air Force Range was prepared by me.

1-22-2013

Jonathan M. Kramer
Geologist
Trinity Analysis & Development Corp.

Date

I hereby submit the Annual Groundwater Monitoring Report, December 2011, for the Melrose Air Force Range was prepared under my supervision and review. To the best of my knowledge, all of the work performed for this report is in accordance with applicable State and federal regulations and accepted professional practices.

1-22-2013

Richard L. Burdine, P.G.
Senior Vice President
Trinity Analysis & Development Corp.

Date

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LIST OF ABBREVIATIONS AND ACRONYMS

°C	Celsius
°F	Fahrenheit
Accutest	Accutest Laboratories, Tampa, Florida
AFB	Air Force Base
AFR	Air Force Range
AFSOC	Air Force Special Operations Command
amsl	above mean sea level
AOC	Area of Concern
bls	below land surface
CCB	continuing calibration blank
CEA	Asset Management Flight
CEC	cation exchange capacity
COCs	Chain-of-custodies
DO	dissolved oxygen
DoD	Department of Defense
DQOs	data quality objectives
ECO	Eco-logical Environmental Services, Inc.
eDATApro	Environmental Data Professional, LLC
ELAP	Environmental Laboratory Accreditation Program
ERP	Environmental Restoration Program
ft/ft	feet per foot
ft/yr	feet per year
GCAL	Gulf Coast Analytical Laboratories, Inc.
gpm	gallon per minute
HSWA	Hazardous and Solid Waste Amendments
ICB	Initial calibration blank
IDW	Investigation-derived waste
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MB	Method Blank.
MDL	Method Detection Limit
mg/L	milligrams per liter
ML	sandy silt
mph	miles per hour
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NELAC	National Environmental Laboratory Accreditation Conference
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NOD	Notice of Disapproval

ORP	oxidation reduction potential
psi	pounds per square inch
PVC	polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
RPD	Relative Percent Difference
RSL	Regional Screening Level
SC	clayey sand
SC-CL	clayey sand to sandy clay
SDG	sample delivery group
SM	silty sand
SOW	Special Operations Wing
SR	State Road
SSL	Soil screening level
SVOC	semivolatile organic compounds
SWMUs	Solid Waste Management Units
TDS	Total Dissolved Solids
TRINITY	Trinity Analysis & Development Corp.
µg/L	micrograms per liter
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UXO	unexploded ordnance
VOC	volatile organic compounds
WQCC	Water Quality Control Commission

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report for the Melrose Air Force Range (AFR) has been prepared by Trinity Analysis & Development Corp. (TRINITY) on behalf of the Cannon Air Force Base (AFB) 27th Special Operations Wing (SOW) and Air Force Special Operations Command (AFSOC). TRINITY performed this work under contract to the United States (US) Army Corps of Engineers (USACE), Omaha District, Contract W9128F-10-D-0091, Task Order 006. The document was prepared for submission to the New Mexico Environment Department (NMED). The *Draft December 2011 Annual Groundwater Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico* was submitted to Cannon AFB on January 11, 2011. NMED provided a Notice of Disapproval (NOD) of the report dated September 26, 2012. Based on comments, TRINITY requested a meeting with NMED and Cannon to discuss the NOD with the intent to better understand NMED's position, prior to generating another version of the document. Personnel from Cannon Air Force Base (Mr. Matt Higginbotham) and TRINITY (Mr. Jonathan Kramer, and Mr. Richard Burdine, PG) met with personnel from NMED (Mr. Dave Cobrain, Ms. Leona Tsinnajinnie, Mr. Dan Comeau, and Ms. Neelam Dhawan) on January 10, 2013 at their office in Santa Fe, New Mexico. Based on comments and discussions occurring during the meeting this report has been revised. As requested by NMED, this report is written and organized in general accordance with the NMED *Position Paper General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites*, February 14, 2003 (New Mexico Environment Department, 2003).

Site History

In 1986, the Department of Defense (DoD) established the Environmental Restoration Program (ERP) to provide guidance and funding for the investigation and remediation of hazardous waste sites caused by historical disposal activities at military installations that may have contaminated soil, groundwater, and/or surface water. The Asset Management Flight (CEA) staff at the Cannon AFB 27th SOW is administratively responsible for oversight of ERP sites at Melrose AFR.

Melrose AFR was issued a Resource Conservation and Recovery Act (RCRA) Permit (NM5572124456-1) effective December 30, 1994 in conjunction with a Hazardous and Solid

Waste Amendments (HSWA) Permit effective December 15, 1994. It is TRINITY's understanding that both permits were allowed to expire on December 30, 2004 and December 15, 2004, respectively.

In accordance with the RCRA permit issued to Melrose AFR, an investigation of potential impacts to soil and groundwater that may have resulted from seven Solid Waste Management Units (SWMUs) was conducted. In accordance with the RCRA Permit a *Phase I RCRA Facility Investigation for Melrose Air Force Range, Cannon Air Force Base, Clovis, New Mexico* (Foster Wheeler, 1996) and a *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003) were completed and the reports submitted to NMED. NMED reviewed the Phase I RCRA Facility Investigation (RFI) and the RFI Addendum and provided a response dated February 1, 2006 which requested a work plan outlining additional field investigation activities for the SWMUs located at Melrose AFR.

On May 9, 2007 the Department of the Air Force requested a deferral of the RFI Work Plan requested by NMED for Melrose AFR. The deferral request was based on the fact that the entire facility is an "*active bombing or test range*." On June 19, 2007 NMED approved deferment of a revised RFI Work Plan. In a NOD dated February 11, 2010 for the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico (Tidewater, 2009),* (Tidewater, Inc., 2009) NMED stated that NMED had previously approved deferment of the revised RFI Work Plan with the stipulation that the purpose and scope of the work plan would be modified to indicate that groundwater monitoring and reporting would continue and is "*… an interim measure, until the SWMUs are fully investigated…..*". Based on NMED comments (February 11, 2010) on the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater, Inc., 2009), a *Final Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater, Inc., 2010) was produced.

Monitoring Network

Based on the *Final Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater, 2010), two separate monitoring well networks are designated and sampled: the Semiannual SWMU Groundwater Quality Network which currently consists of 10

wells, and the Annual Groundwater Quality Network which currently consists of 14 wells.

The Semiannual SWMU Groundwater Quality Network includes:

- One background groundwater monitoring well (currently MWQ-23);
- Four groundwater monitoring wells at SWMU 114;
- Four groundwater monitoring wells at SWMU 130;
- One groundwater monitoring well at SWMU 131.

With regards to the background well, a new background monitoring well was initially requested on October 27, 2009 when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009). At the time, MWQ-10 was regarded as the background monitoring well. In that response NMED stated:

> *"NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
>
> *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…"*

The subsequent contractor, Tidewater, Inc. was not under contract to install a background monitoring well as discussed in the *Response to Comments contained in the February 11, 2010 Notice of Disapproval to the Draft Work Plan, Groundwater Monitoring, Melrose Air Force Range, New Mexico, October 2009* (Tidewater, Inc., 2009).

TRINITY proposed utilization of and subsequently sampled well MWQ-23 to determine if this location was a viable option as a background well. This location was proposed and tested in an attempt to save the USAF and the taxpayer the substantial cost associated with installation of a new well. However, based on review of the collected groundwater quality information from MWQ-23, it does not appear to represent an ideal background groundwater quality sampling location. In addition, no well construction details are known about this well. TRINITY will

propose the installation of a new background monitoring well under separate cover in a Well Installation Work Plan.

The Annual Groundwater Quality Network includes 14 wells, consisting of monitoring wells and active/inactive livestock/irrigation supply wells. These wells are discussed in further detail later in this section of the report.

An additional 20 wells are included as groundwater elevation measuring points only. A more detailed discussion of the site sampling plan for both the Semiannual and Annual Groundwater Quality Network is provided in **Section 1.3**.

Water quality sampling and reporting is being performed to monitor for the presence of potential contaminants, gauge the effectiveness of the site's monitoring system, provide the foundation for correction or improvement to the monitoring plan as necessary, and to document the site's influence on the area's groundwater quality, if any.

All field activities presented in this document were completed in general accordance with the data quality objectives (DQOs) presented in the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011).

1.1 SITE DESCRIPTION AND BACKGROUND

1.1.1 Location/Access

The Melrose AFR is a bombing and air-to-ground gunnery range under management of Cannon AFB within AFSOC. The Melrose AFR is situated approximately eight miles southwest of the village of Melrose, and located predominately in Roosevelt County with a small parcel in Curry County, New Mexico (**Figures 1 and 2**). Access to the range is achieved by traveling south from Melrose on New Mexico State Road (SR) 267 for approximately 9.3 miles, then west on Sundale Valley Road for approximately seven miles to the security gate.

During World War II, the area was used by the US Army Air Corps (predecessor to the US Air Force) for training. It has been continuously used by the US Air Force since World War II. In 1952 the range was expanded when the Air Force leased 7,771 acres of grassland for use as a bombing and air-to-ground gunnery range by the Tactical Air Command. Since 1952, the range has been expanded several times including land purchases and leases and currently comprises 87,925 acres. Current acreage includes Cannon AFB owned, public domain, and restricted easement land (Foster Wheeler, 2003).

The Impact Area of the Range is located northeast of the physiographically prominent Mesa and consists of grasslands with a grid of access roads and bombing targets. The Impact Area is delineated by a historical boundary that previously delineated the extent of the entire Range (**Figure 2**). In 1990-91, the boundary of the Range was expanded through the acquisition of agricultural and range land parcels on all sides. These parcels (leased lands) are currently part of Range property but are leased back to the prior owners for continued use as agricultural and range land. Leaseholders use the unconfined aquifer for irrigation and livestock watering.

Live high-explosives-filled ordnance was used on the range prior to 1969. Since then, practice bombs and inert full-scale bombs have been used at the range. Practice bombs and inert bombs are known to contain only small explosive or pyrotechnic spotting charges. Additionally, live gun ammunition has been used continuously on the range for target practice.

Over the years, portions of the Melrose AFR have been used to dispose of a variety of military

and industrial waste from Melrose AFR and Cannon AFB. Wastes have included: unexploded ordnance (UXO), exploded ordnance, scrap metal, paints, solvents, pesticides, herbicides, putrescible waste, etc. (Foster Wheeler, 1996; Foster Wheeler, 2003). Melrose AFR currently has seven SWMUs located within its boundary. Three SWMUs have permanent monitoring wells in place, two SWMUs are located within the Impact Area and as such, do not have permanent wells in place, and the wells associated with the remaining two SWMUs have been abandoned because they were dry (**Figure 2** and **3**). The SWMUs are described as follows:

SWMU 114 – Expended Ordnance and Industrial Waste Burial Site (Motor Pool Trenches)
SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)
SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)
SWMU 130 – World War II Cantonment Disposal Site (formerly Area of Concern (AOC) 1)
SWMU 131 – Domestic Waste Burial Site (East of Fire Station; formerly AOC 2)
SWMU 132 – Disposal/Burn Site (North Helicopter Pad; formerly AOC 3)
SWMU 133 – Northwest Munitions Disposal Site (Northwest Corner of Impact Area; formerly AOC 4)

1.1.2 SWMU Descriptions & History

1.1.2.1 SWMU 114 – Expended Ordnance and Industrial Waste Burial Site

SWMU 114 is located in the southeast quarter of the southwest quarter of Section 15 and the northeast quarter of the northwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). The site and surrounding area are flat with sparse desert scrub vegetation consisting of prairie grass and cactus.

According to historical RFI reports, the military used a series of eight unlined burial trenches at SWMU 114 to dispose of a variety of military and industrial waste from Melrose AFR and Cannon AFB. Trenches were approximately 20 to 40 feet in width, 100 to 200 feet in length and up to 40 feet in depth (Foster Wheeler, 1996; Foster Wheeler, 2003). One trench approximately 15 feet deep and 400 feet long is currently open but has not been used.

Exact dates and types of waste disposed at SWMU 114 are unknown. It is known, however, that between 1952 and 1962 drummed liquids were poured into the trenches and burned. Full drums of liquid, including possible unusable fuels, paints, sludge, and solvents may have also been placed in the trenches. For an unknown period of time, the military also disposed of an estimated 12,000 to 15,000 pounds per month of scrap metal from practice bombs and munitions in the trenches at SWMU 114 (Foster Wheeler, 1996; Foster Wheeler, 2003). According to the *Phase I RCRA Facility Investigation for Melrose Air Force Range, Cannon Air Force Base, Clovis, New Mexico* (Foster Wheeler, 1996) and a *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003) the trenches at SWMU 114 were cleared of ordnance and have been backfilled and closed.

According to historical RFI reports, four monitoring wells were installed and sampled as part of the Phase I RFI. Groundwater at this location is present approximately 150 feet below land surface (bls). No organic compounds were detected above groundwater standards during the Phase I RFI. Elevated metals concentrations were attributed to high turbidity and natural conditions. Elevated anion concentrations were attributed to natural conditions. Migration of metals from the disposal site to groundwater was determined to be unlikely due to the high cation exchange capacity (CEC) of the surface and near surface soil and the alkaline nature of the formation. It was determined that groundwater at SWMU 114 has not been impacted by disposal activities at the site (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.2 SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)

SWMU 115 is located in the northeast quarter of the northeast quarter of Section 33, Township 1 North, Range 30 East in Roosevelt County, New Mexico (**Figure 3**). The site lies within a small arroyo located in the south-central portion of Melrose AFR. According to historical RFI reports, SWMU 115 was used for the disposal and burial of UXO in 1989. UXO and other exploded ordnance were reportedly collected from the surrounding areas, pushed into the arroyo, and covered with a thin layer of soil. Storm water flows intermittently down the arroyo during heavy rains.

The ground surface at the site is relatively free of debris. The disposal area was 600 feet long, 15

to 20 feet wide, and 15 to 20 feet deep. The contents of SWMU 115 are believed to consist entirely of UXO and other exploded ordnance, including 750-pound and 2,000-pound bombs covered with a thin layer of soil. Groundwater was reported present at approximately 25 to 30 feet below land surface. During the Phase I RFI, groundwater samples were collected utilizing direct-push technologies. No organics or explosives related compounds were detected in groundwater samples submitted for analysis. Elevated metals concentrations were attributed to elevated turbidity in the samples. It was determined that groundwater at SWMU 115 has not been impacted by disposal activities at the site (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.3 SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)

SWMU 117 is located in the northeast quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). This site is located southeast of the main control building at the Melrose AFR. The area is within a slight depression that receives storm water runoff from the surrounding area.

According to the historical RFI reports, this SWMU was formerly used to dispose of domestic waste from the control building, including such items as food waste and common household items. Other items possibly disposed in this area could include used oil and grease, solvents, batteries, pesticides, or herbicides (Foster Wheeler, 1996; Foster Wheeler, 2003). Disposal at the site appears to have begun circa 1973 as evident in aerial photographs. The area used for disposal at SWMU 117 was approximately 300 feet by 300 feet or approximately two acres. It is a closed site and currently covered by native grasses.

Groundwater was reportedly not encountered at a maximum depth of 182 feet during the Phase I RFI. The four borings were backfilled to the top of a potential confining layer (caliche) at approximately 41 feet bls with wells installed to intercept potential seasonal or perched groundwater. These four wells have been historically dry and have been abandoned at NMED's request. Based on the lack of groundwater and the lack of significant contamination in soil samples it was concluded that contamination of groundwater at SWMU 117 was unlikely (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.4 SWMU 130 – World War II Cantonment Disposal Site

SWMU 130 is located in the northeast quarter of Section 17, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 130 was formerly referred to as AOC 1. According to historical RFI reports, the military used SWMU 130 as a sanitary landfill during World War II for a cantonment area (temporary housing area for troops). No documentation exists for specific wastes disposed at the site; however, it is possible that the waste stream included all items from domestic wastes to motor pool waste, UXO, munitions, batteries, oil and fuels, etc. The exact location of the disposal site is unknown; however approximately 50 acres were investigated during the Phase I RFI. Groundwater was reportedly present approximately 140 to 145 feet bls at SWMU 130. Four monitoring wells were installed and sampled as part of the Phase I RFI. No organic compounds were detected and only one metal (thallium) was detected above applicable groundwater standards. The elevated thallium concentration was attributed to natural conditions (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.5 SWMU 131 – Domestic Waste Burial Site (East of Fire Station)

SWMU 131 is located in the northwest quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 131 was formerly referred to as AOC 2. This site is east of the Melrose AFR Fire Station and consists of approximately 0.5 acres. According to historical RFI reports, SWMU 131 was used for disposal and/or burning of wastes; however, the type and volume of wastes is unknown (Foster Wheeler, 2003). The suspected waste stream possibly included spent fuels, motor oil, batteries, paints, pesticides, and metals in addition to domestic waste. Waste first appears to have been disposed of at SWMU 131 circa 1966.

Two monitoring wells, a shallow and deep were installed in the investigative borings to depths of 50 and 185 feet bls, respectively. The shallow well was installed above a confining layer (caliche) to intercept seasonal or perched groundwater. The shallow well has been historically dry and has been abandoned at NMED's request. Groundwater was reportedly present in the deep well at approximately 105 feet bls.

The deep groundwater well was sampled as part of the RFI. No organic analytes were detected

in the groundwater during the Phase I RFI. Selenium and thallium were reported at concentrations above applicable groundwater standards; however, due to a lack of selenium or thallium in overlying soil samples it was determined that groundwater had not been impacted by SWMU 131 (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.6 SWMU 132 – Disposal / Burn Site (North Helicopter Pad)

SWMU 132 is located in the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 132 was formerly referred to as AOC 3. This site is less than 0.5 acres located north of the former helicopter pad at the Melrose AFR operations area. SWMU 132 was reportedly used for burning and/or disposal of unknown wastes types and quantities. Possible wastes included domestic waste, motor oil, metals, and residue from burning. Waste first appears to have been disposed of at SWMU 132 circa 1973.

During the Phase I RFI no groundwater was encountered during drilling to a total depth of 182 feet bls. The boring was backfilled to the top of a potential confining layer (caliche) at approximately 50 feet bls to intercept seasonal or perched groundwater. Due to land-use (helicopter pad) the well was installed flush mount. The well was dry during the Phase I RFI (1996) and during the RFI Addendum (2003) and therefore could not be sampled. Based on the lack of groundwater this well was abandoned at NMED's request. Due to the lack of groundwater it was determined to not have been impacted by the presence of SWMU 132 (Foster Wheeler, 1996; Foster Wheeler, 2003).

1.1.2.7 SWMU 133 – NW Munitions Disposal Site (NW Corner of Impact Area)

SWMU 133 is located in the northwestern corner of the impact area. SWMU 133 was formerly referred to as AOC 4. This site is located in the east-central part of Section 17 with some overlap into Section 16, Township 1 North, Range 30 East in Roosevelt County, New Mexico (**Figure 3**). The site is flat with native scrub vegetation and areas free of vegetation. According to historical RFI reports, SWMU 133 was used from 1952 to 1960 for disposal of exploded ordnance and UXO.

Groundwater was reportedly present at approximately 112 to 127 feet bls. During the Phase I RFI, groundwater samples were collected from three of four borings utilizing direct-push

technologies. Groundwater was not encountered in one of the borings. No organics were detected in groundwater. Concentrations of several metals exceeded applicable groundwater standards. A pattern of increased concentrations of five of the metals from west to east across the site might suggest impacts from SWMU 133 or from naturally occurring lateral changes in bedrock (Foster Wheeler, 1996; Foster Wheeler, 2003). Permanent monitoring wells were not installed due to the location of SWMU 133 in an overflight approach route along the northern portion of the active Impact Area. In a letter to Cannon AFB dated June 19, 2007 NMED stated, that "…*NMED will prepare a "corrective action-only" permit to be implemented once the range is closed, transferring, or transferred*." (NMED, 2007). When the Range is deactivated additional assessment will likely be required.

1.1.3 Well Installation History

As previously discussed, the current monitoring well network consists of a Semiannual SWMU Groundwater Quality Network (10 wells), an Annual Groundwater Quality Network (14 wells), and 20 additional wells utilized solely for the collection of water levels. The following discussion provides a limited historical discussion of well installation at Melrose AFR, particularly as it relates to the monitoring network. Although there is limited or a lack of installation information, TRINITY has attempted to discuss network well installations in chronological order as they were installed at Melrose AFR. Available, documented, or measured well construction details have been compiled and are summarized in **Table 1**, Summary of Well Construction Details, and **Table 2**, Summary of Groundwater Levels.

Data gaps/deficiencies that have been identified are discussed below and clearly identified in associated tables. Where applicable, additional discussion is provided throughout the report specifying how the data gaps/deficiencies have affected interpretations of the data made by TRINITY and others.

Agricultural Wells

The Homestead Act of 1862 consisted of individual land grants of 160 acres each. Roosevelt County was primarily homesteaded from circa 1900 to 1915, although settlement continued beyond 1915 and portions of Melrose AFR continue to be farmed (center pivots) and grazed

(cattle) (Burroughs, 1975). During the peak of settlement activities (1905 to 1915) the area currently encompassing Melrose AFR contained four towns or villages which included Fertile Valley, Granite Valley, Benson, and Mesa, with a post office being located in Granite Valley (Burroughs, 1975). The only remnants of early settlement of the area are a few homesteads and numerous wells of which no firsthand information or records are available. Several of these wells are currently included in the monitoring network as described below.

Well ID	Network Designation	Historical Use
MWQ-4	Annual Groundwater Quality Network	Windmill-driven well
MWL-6	Annual Groundwater Quality Network	Windmill-driven well
MWQ-8	Water-level only	Windmill-driven well
MWQ-9	Water-level only	Hand-dug well
MWQ-12	Water-level only	Windmill-driven well
MWQ-13	Water-level only	Windmill-driven well
MWL-4	Water-level only	Windmill-driven well
MWL-7	Water-level only	Windmill-driven well
MWL-8	Water-level only	Windmill-driven well
MWL-9	Water-level only	Windmill-driven well
MWL-10	Water-level only	Windmill-driven well
MWL-11	Water-level only	Windmill-driven well
MWL-12	Water-level only	Windmill-driven well

Due to the age of these wells very limited construction details are available. In several instances total depth has been measured but construction details, lithologic data, and screened intervals are unknown (**Table 1**).

Several of the wells included in the network consist of more recently installed agricultural supply wells. These wells are utilized for supplying water for cattle and for crop irrigation (center pivots) which occurs primarily in the northwest portions of Melrose AFR. As these wells contain pumps, integral plumbing, and in most cases live electrical wires, no well construction details have been attained or are known. The following table summarizes current network designations and uses of the more modern agricultural wells in the network.

Well ID	Network Designation	Historical Use
MWQ-3	Annual Groundwater Quality Network	Agricultural Supply Well
MWQ-5	Annual Groundwater Quality Network	Agricultural Supply Well
MWQ-6	Annual Groundwater Quality Network	Agricultural Supply Well
MWQ-7	Annual Groundwater Quality Network	Agricultural Supply Well
MWQ-10	Annual Groundwater Quality Network	Agricultural Supply Well
MWQ-23	Semiannual Groundwater Quality Network	Agricultural Supply Well
MWL-1	Water-level only	Agricultural Supply Well
MWL-2	Water-level only	Agricultural Supply Well
MWL-3	Water-level only	Agricultural Supply Well
MWL-5	Water-level only	Unknown

Due to their locations near the Jockey Live Fire Range, access issues, and test missions, TRINITY has only inspected and collected water levels once from MWL-2 and has never inspected or collected water levels from MWL-3.

Groundwater Monitoring Wells

The remaining 18 wells that are part of the monitoring network consist of wells known to have been constructed for the purposes of environmental groundwater monitoring (**Table 1**). These are all indicated to have been installed since 1995. Investigative activities have been ongoing since 1994 when a Phase I RFI was conducted in accordance with the requirements of the RCRA permit for Melrose AFR. Investigations were conducted for SWMUs 114, 115, and 117 as well as four potential AOCs identified during a site visit in September 1994. The results of the RFI are discussed in the *Phase I RCRA Facility Investigation for Melrose Air Force Range, Cannon Air Force Base, Clovis, New Mexico* (Foster Wheeler, 1996) and a *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003). The permit covered open burning/open detonation at the UXO Open Burn Treatment Pit (SWMU 118); however, SWMU 118 was not a subject of the investigation. Permanent monitoring wells were installed during the RFI as follows;

- SWMU 114 (M114MW001, M114MW002, M114MW003, and M114MW004)
- SWMU 117 (M117MW001, M117MW002, M117MW003, and M117MW004)
- SWMU 130 (MAO1MW001, MAO1MW002, MAO1MW003, and MAO1MW004)
- SWMU 131 (MAO2MW001S and MAO2MW001D)

- SWMU 132 (MAO3MW001)

The Phase I RCRA Facility Investigation for Melrose Air Force Range (Foster Wheeler, 1996) provides very limited discussion on well construction methodology. Boring logs, well completion reports, etc. for these wells were not provided in the Phase I RFI; however, based on discussions in the 1996 report all these wells were installed in the Ogallala Formation. According to well labels attached to the protective casings on these wells they were installed between October and December of 1995.

The four wells at SWMU 117, the shallow well at SWMU 131, and the well at SWMU 132 have historically been dry and were abandoned by TRINITY on October 5, 2011 as approved by NMED and the New Mexico Office of the State Engineer. Additional discussion regarding the proper abandonment of these wells is included in **Section 2.1.5** and **Section 4.4** of this report.

Since the 1995 RFI, six additional wells have been installed at Melrose AFR. Annual Groundwater Quality Network well MW-14 was installed in the previously permitted EOD pit. No boring logs, well completion reports, or well details have been discovered and the exact installation date is unknown. The United States Geologic Survey (USGS) installed Annual Groundwater Quality Network wells MWQ-1 and MWQ-2 in June 2002 as discussed in *Ground-water hydrology and water quality of the Southern High Plains aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03: U.S. Geological Survey Scientific Investigations Report 2004-5158* (Langman, 2004). Well MWQ-1 is currently dry; however, MWQ-2 is routinely sampled. MWQ-2 was reportedly installed in the Chinle Formation at a depth of 240 feet bls to monitor a thin (two feet thick) confined aquifer section located approximately 100 feet beneath the base of the Ogallala Aquifer. Boring logs, well completion reports, etc., were not provided in the USGS report; however, based on Figure 3 of the USGS report the well appears to have approximately 15 feet of screen.

According to Melrose AFR personnel wells MWQ-18 through MWQ-22 were installed by the USGS subsequent to the 2004 USGS report. Based on available water quality data MWQ-18 and MWQ-19 were installed prior to July 2004; MWQ-20, MWQ-21, and MWQ-22 were installed

prior to July 2005. Based on total depth and groundwater quality data, it appears that MWQ-2, MWQ-19, MWQ-20, and MWQ-22 were all installed in the Chinle Formation; however, this can currently only be confirmed for MWQ-2 (Langman, 2004).

Range Supply Wells

The Range complex at Melrose AFR has historically utilized two wells for supply purposes, Well #11 and Well #13 (**Figure 2,** and **Figure 3**). Well #11 was historically utilized for fire-control, maintenance, and potable supply but is not currently utilized for potable supply due to elevated levels of perchlorate. Well #11 is completed at a depth of 202 ft bls, with perforated casing from 139 to 197 ft bgs. Well #13, is a high yield source but is located in an area susceptible to munitions damage and has shown elevated levels of arsenic. It is not currently connected to the water supply system (Cannon, 2011). TRINITY was not able to locate well construction details for Well #13. The installation dates for these two wells is not known by TRINITY. Additional discussion related to these two wells is provided in **Section 1.2.2**.

1.2 HYDROGEOLOGIC SETTING

1.2.1 Geology

The stratigraphic units of interest at Melrose AFR are the Chinle, Ogallala, and Blackwater Draw Formations. In eastern New Mexico, these units form the Southern High Plains Aquifer, which is part of a larger aquifer system extending from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South Dakota (Langman, 2004). The Chinle Formation (Triassic age) is the base of the unconfined Southern High Plains Aquifer and is composed of red shales with interbedded sands (redbeds) deposited by low-energy streams in floodplains and deltas. The top of the Chinle Formation is marked by an erosional unconformity with up to several hundred feet of relief (Lee Wan and Associates, Inc., 1990). The Ogallala Formation (Tertiary age) is the uppermost formation for the central and southern parts of Melrose AFR and it lies unconformably over the upper unit of the Chinle Formation. The Blackwater Draw Formation (Quaternary age) overlies the Ogallala Formation in the northern part of Melrose AFR (**Figure 4**).

In the vicinity of Melrose AFR, the Ogallala dips gently to the southeast; no faults or buried structural lineaments are known to exist in the area. The thickness of the Ogallala Formation may vary significantly over short north-south distances. Two separate sources states that the base of the Southern High Plains Aquifer (Ogallala Formation) in the northern portion of Melrose AFR lies at a depth of greater than 182 feet bls as demonstrated during drilling conducted as part of the Phase I RFI (Foster Wheeler, 1996) and is estimated at approximately 200 feet bls (Hart, 1985). In central portions of Melrose AFR the USGS observed the base of the Ogallala Formation at approximately 135 feet bls (Langman, 2004). In the southwest most corner of Melrose AFR Langman (2004) depicts the Chinle as outcropping (**Figure 4**).

Typically, the erosional surface of the upper unit of the Chinle Formation forms an uneven contact with the Ogallala Formation and in many places is marked with gravel, cobble, or boulder deposits. The Tertiary aggradational stream deposits filled the valleys, uplands, and fluvial channels of the eroded Triassic deposits (Gustavson, 1996). Coarser materials were deposited in the channels and valleys with finer material between channels. The middle sections of the Ogallala are characterized by unconsolidated fluvial sands, silts, and clays in a fining-

upwards sequence, with the upper portion consisting of eolian sands and silts deposited over the fluvial sediments and upland areas separating paleovalleys (Hart, 1985). The unconformity and variable deposition between the Chinle and Ogallala formations and within the Southern High Plains Aquifer have resulted in vertical and horizontal changes in the unit's porosity and permeability and produced a discontinuous aquifer within the Ogallala Formation (Hart, 1985).

Sediments encountered during drilling at Melrose AFR were predominately silts and very fine sand. Gravel, cobble, and boulder deposits normally associated with the base of the Ogallala formation and a fining up sequence above were not commonly identified during drilling activities at Melrose AFR. This is likely due to the majority of the monitoring wells at Melrose AFR not being drilled to the base of the Ogallala Formation where gravel, deposits are commonly found. Gravel was identified at the base of the Ogallala Formation during installation of MWQ-2 (Langman, 2004). Based on total depth, regional geologic information, etc., wells MWQ-19, MWQ-20, and MWQ-22 appear to also be installed in the Chinle Formation, although no boring logs, well construction reports, or definitive details have been located to date. The silts and very fine sand encountered during drilling is likely representative of the eolian sequence of the Ogallala Formation.

Except where strongly cemented by calcium carbonate (caliche), the near-surface sediments of the Ogallala Formation are loose and friable. Sediments encountered during drilling at Melrose AFR were predominantly silts and very loose sands and are most likely representative of the eolian sequence of the Ogallala Formation. Sediments below approximately 50 feet bls become increasingly indurated with depth, resulting in slow drilling rates and poor sample recovery. Based on regional descriptions of the Ogallala (Hart, 1985; Gustavson, 1996) and more recent drilling by the USGS (Langman, 2004) the high induration appears to have been misinterpreted by others as sandstone, siltstone, and claystone in areas of Melrose AFR (Foster Wheeler, 1996; Foster Wheeler, 2003).

Authigenic and allogenic clays are found as trace to abundant matrix minerals in the Ogallala (Lee Wan and Associates, Inc., 1990). As reported by Lee Wan and Associates, five zones have been distinguished within the Ogallala Formation of east-central New Mexico on the basis of

clay minerals. The clay zones are characterized by moderate to high CEC values. The Ogallala Formation as a whole has a relatively high CEC value, which should inhibit the migration of metals in ionic form.

Caliche is a major feature of the Ogallala Formation, occurring in nearly continuous to discontinuous layers throughout. The uppermost caliche, termed the "climax caliche," crops out around playas and the bounding escarpments of the Ogallala Formation, and is locally termed "caprock." It is typically three to five feet thick. At Melrose AFR, this caprock forms a resistant layer on top of the Mesa in the southwestern corner of the range. Caliches that occur lower in the Ogallala Formation are platy and harder. Caliche is likely to either be thin or absent below playas. A particularly thick layer of caliche occurs between approximately 45 and 55 bls at Melrose AFR.

1.2.2 Hydrogeology

Melrose AFR is located near the western margin of the Southern High Plains Aquifer of which the Ogallala Formation is the primary water bearing unit. The Southern High Plains Aquifer forms the primary aquifer for potable, livestock, and irrigation water in the vicinity of Melrose AFR and throughout the eastern New Mexico region. In addition, there are several localized shallow water-bearing zones across the region used for irrigation purposes. No deeper aquifers are known to be in use in the vicinity of Melrose AFR. However, groundwater of poorer quality does occur in the Chinle Formation, which underlies the Ogallala Formation. Regional well yields from the Southern High Plains Aquifer vary from less than one gallon per minute (gpm) in thin silts and sands to more than 1,600 gpm in thick sands and gravels (Lee Wan and Associates, Inc., 1990). Within New Mexico, groundwater in the Southern High Plains Aquifer generally flows eastward (Hart, 1985), which is considered the overall direction of regional flow in the unconfined aquifer.

The Southern High Plains Aquifer was mapped by Hart as unsaturated or saturated only in isolated channels in the area occupied by the southern and western portions of Melrose AFR and as saturated in the northern portion (Hart, 1985). The Range complex at Melrose AFR has historically utilized two wells for supply purposes, Well #11 and Well #13 (**Figure 2** and **Figure 3**).

Well #11 was historically utilized for fire-control, maintenance, and potable supply. The well is not currently utilized for potable supply due to elevated levels of perchlorate. The reported concentrations are at similar concentrations to the majority of the monitoring wells at Melrose AFR (two to three micrograms per liter). Well #11 is completed at a depth of 202 ft bgs, with perforated casing from 139 to 197 ft bgs. It produced 14 gpm at 35 pounds per square inch (psi) during a pump test in 1985 (William Matotan and Associates Inc., 1985). Static water levels have varied over the years in this well, ranging from 138 feet bls in 1978 (William Matotan and Associates Inc., 1985) to 96 feet bls in summer 1995 (Foster Wheeler, 1996). The supply well is located within approximately one mile of all the monitoring wells installed during the Phase I RFI (Foster Wheeler, 1996), but its terminus is approximately 20 feet deeper. Its high production rate and higher static water elevation as compared to other monitoring wells at the investigation sites indicates it was completed in a more permeable portion of the aquifer or perhaps an isolated palaeochannel that has been infilled with coarse gravels.

Well #13, is a high yield source (approximately 150 gpm), but is located in an area susceptible to munitions damage and has shown elevated levels of arsenic. It is not currently connected to the water system (Cannon, 2011). TRINITY was not able to locate well construction details for this well.

The groundwater hydrology and water quality of the Southern High Plains Aquifer at Melrose AFR was also further characterized by the USGS, in cooperation with the US Air Force, based on data collected in 2002 and 2003 and discussed in *Ground-water hydrology and water quality of the Southern High Plains aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03: U.S. Geological Survey Scientific Investigations Report 2004-5158* (Langman, 2004). A 29-well monitoring network that included wells in the impact area and leased lands of Melrose AFR was investigated. Water level measurements and water quality data from the Southern High Plains Aquifer of the Ogallala Formation (28 wells) and deeper, confined aquifer of the Chinle Formation (one well) were analyzed. Information from previous investigations, including water level and water quality data collected statewide and dating from 1962, and results from the Phase I RFI (Foster Wheeler, 1996) and RFI

Addendum (Foster Wheeler, 2003) were evaluated as part of the 2004 USGS study.

USGS monitoring data show that water levels in the Southern High Plains Aquifer at Melrose AFR declined between 1962 and 2003. At 13 wells monitored since 1962, water levels declined between one foot and 18 feet during varying periods of record. In wells installed above a localized confining unit (caliche), as part of the Phase I RFI, appear to never have contained groundwater. Previous reports have indicated that these shallow wells have become dry due to declining water table (URS, 2009; Tidewater, Inc., 2010). However, during the Phase I RFI, minimal water was measured in the silt trap of several wells but never appeared to rise above the bottom of the screen. Recent inspections of these wells by TRINITY appear to indicate moist silt has accumulated in the silt traps, likely the result of condensation in the well. These wells appear to never have contained groundwater.

Using 1978 data, the regional groundwater flow direction in the Southern High Plains Aquifer of the Ogallala Formation in the Melrose AFR is to the northeast with a hydraulic gradient of about 0.013 feet per foot (ft/ft), and inferred that the depth to groundwater ranged from 40 to 120 feet bls from southwest to northeast across the active portion of the range (Hart, 1985). Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day and hydraulic gradients were between 0.007 and 0.014 ft/ft. Assuming an effective porosity of 25 percent, linear flow velocities at Melrose AFR appear to range from 0.01 to less than 5 feet per year (ft/yr) (Foster Wheeler, 1996). Depths to groundwater measured during the Phase I RFI (Foster Wheeler, 1996) varied from an average of 45 feet bls at SWMU 115 in the central part of Melrose AFR to average depths ranging from 112.5 feet to more than 182 feet at all other sites. The median groundwater surface and flow direction within the regional aquifer based on depth to water measurements in 2002 to 2003 is depicted on **Figure 5** (Langman, 2004).

Recharge to the Southern High Plains Aquifer is primarily through precipitation. The recharge rate has been estimated to be very low (0.5 to 0.8 inch/year) and is much lower than the discharge rate (Kearney, 1987). Because of the high evapotranspiration rate and low

precipitation, recharge can only occur during cool months, when precipitation my exceed evapotranspiration, or during heavy rainfall events in which the infiltration capacity of the soil is exceeded. When the infiltration capacity of the soil is exceeded, runoff flows to playas. In this instance, the presence of the water in the playas may allow deep percolation to the aquifer. The fact that percolation has occurred is indicated by the presence of clay deposits in playas and the likelihood that caliche is thin or absent directly below the playas. Caliche is soluble in acidic rainwater and over time the solution forms percolation pathways through sediments. Discharge from the Southern High Plains Aquifer occurs through well pumping and springs located along the eroded margins. No discharging springs are known to occur on or near Melrose AFR.

As previously discussed, limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available this has not been entirely confirmed. With that in mind, it appears that water level contours for the unconfined Southern High Plains Aquifer indicate groundwater flows predominantly to the northeast from the Mesa to the Portales Valley (**Figure 5**). The flow direction changes in the Portales Valley, indicating two flow systems are present, one local, and one regional. In the local flow system, groundwater in the southwestern part of Melrose AFR flows northeast, while regional flow is to the east to southeast across the northern part of Melrose AFR. It appears that the direction of groundwater flow reflects the contact between the Ogallala and Chinle formations, which determines groundwater gradient and saturated thickness of the Southern High Plains Aquifer. The local flow system gradient is about 1.3 percent, and the regional flow system gradient is about 0.1 percent. The saturated thickness of the aquifer increases as the local and regional flow systems merge.

Regional water quality in the Southern High Plains Aquifer is generally good, with total dissolved solids (TDS) ranging from 250 to 500 milligrams per liter (mg/L) (Gutentag, 1984) and fluorides ranging from 2.2 to 2.7 mg/L (William Matotan and Associates Inc., 1985). Water

quality data for the Melrose AFR supply well (Well #11, screened in the Ogallala Formation) provided by Cannon AFB in September 1995 indicated dissolved solids at 555 mg/L, filterable residues at 461 mg/L, and fluoride at 2.1 mg/L.

Groundwater in the Chinle is of poorer quality than the Ogallala Aquifer and is generally characterized by high concentrations of TDS (<1,000 to 10,000 mg/L) and sodium (in some locales the sodium concentrations are high enough to make the groundwater unusable for potable, irrigation, or livestock supply purposes). Uranium commonly occurs throughout the Dockum Group of which the Chinle Formation is a member and is the source for commonly elevated radium-226 and radium-228 levels in the groundwater (Bradley & Sanjeev, 2003) (Bradley & Sanjeev, 2003). As previously discussed, limited to no well construction details are available; however, based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that four monitoring wells at Melrose AFR are installed in the Chinle Formation and include MWQ-2, MWQ-19, MWQ-20, and MWQ-22.

According to the USGS, results of water quality analysis for samples collected in 1995, 2000, and 2002-2003 indicate three areas or sources of different water quality types at Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). Groundwater quality near the Mesa was similar to that of the regional flow system and to water from the southern part of Melrose AFR. Ion concentrations in groundwater from the center of the impact area were similar to groundwater from the underlying Chinle Formation, indicating likely connection with the deeper water-producing zone. Results of monitoring in 2004 showed that higher concentrations of dissolved solids and metals occur in the impact area; thereby confirming that groundwater in the impact area is different from other groundwater at Melrose AFR (Langman, 2004). No pesticides, explosives, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or organic halogens were found in the groundwater samples from the 2002-2003 events (Langman, 2004). Perchlorate was detected at estimated concentrations in wells MWQ-14 (2.6 micrograms per liter (µg/L)) and MWQ-15 (20 µg/L). However, Langman (2004) attributed the perchlorate results to analytical method interference due to elevated chloride concentrations in these samples.

Groundwater age, determined during the USGS study, indicates groundwater is less than 55 years old across the range, with younger groundwater occurring near the Mesa and ephemeral drainages (less than 25 years) and older water toward the Portales Valley (25 to 55 years) (Langman, 2004). The Ogallala Formation is the primary source of water for domestic, municipal and irrigation uses in this region of New Mexico.

1.2.3 Topography

Melrose AFR is located in the Southern High Plains physiographic region and lies atop a large plateau known as the Llano Estacado (Hawley, 1976). The Llano Estacado is a nearly flat plain that slopes gently (typically 10 to 15 feet per mile) to the east and southeast from eastern New Mexico into western Texas. In eastern New Mexico, the Llano exceeds 4,000 feet above mean sea level (amsl), and elevations in the vicinity of Melrose AFR range from 4,200 to 4,650 feet amsl **Figure 6**. Streams in the region are ephemeral and the regional drainage pattern is poorly developed. The closest named drainages to Melrose AFR are Chapman Draw, approximately two miles west of Melrose AFR, and Cañada del Tule, about two miles southeast of the southeastern corner of Melrose AFR. Chapman Draw drains to the north, and Cañada del Tule drains to the east. The surface topography of Melrose AFR slopes to the northeast and overland flow and ephemeral drainage from the area of the sites is toward the northeast and not toward either named drainage.

The most prominent geomorphic features in the vicinity of Melrose AFR are two spurs of an escarpment known as the Mesa, which rise about 200 feet above the average elevation of the surrounding surface. The northern spur, referred to as the West Mesa, which runs near the western side of the active impact area, ends in a small butte near the center and overlooks much of the facility. Various observation and communication and control facilities associated with operations at Melrose AFR are located on the butte. The eastward-trending southern spur, which bounds the southern side of the active impact area, is referred to as the South Mesa.

Melrose AFR topography (excluding the Mesa) is open and mostly flat, gently sloping to the northeast. The Mesa dominates the southwest part of Melrose AFR. It is a topographic high and

is part of the Western Caprock Escarpment that defines the western boundary of the Southern High Plains aquifer. The Mesa has a plateau area of about 7,775 acres ranging in altitude from 4,600 to 4,700 feet amsl and forms the surface basin boundary between the Pecos River Basin to the west and the Portales Valley to the east. The Impact Area gently slopes from southwest to northeast, away from the Mesa.

1.2.4 Soils

According to the soil survey of Curry and Roosevelt County (USDA 2010), soil types in the Melrose AFR area include loams, fine sandy loams, and loamy fine sands of the Amarillo-Clovis association and calcareous soils of the Potter-Mansker association. These soils would be classified as fine sandy silt (ML), silty fine sand (SM), clayey sand (SC), and clayey sand to silty, fine sandy clay (SC-CL) under the Unified Soil Classification System, and as aridisols (calciorthids) under the US Department of Agriculture-Soil Conservation Service Comprehensive Soil Classification System.

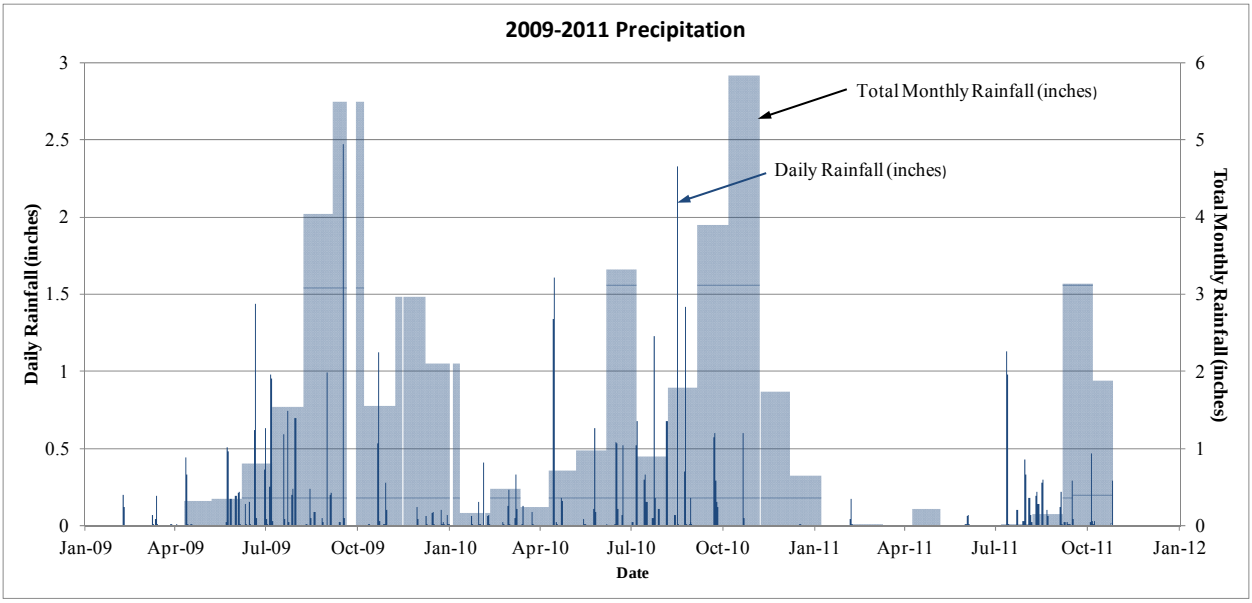
1.2.5 Surface Water Drainage Systems

Relict sand dunes and minor playas are located to the north of Melrose AFR, along the southern side of the US Highway 84, and larger playas with surface areas greater than 1/3 square mile are present one to two miles north of Melrose AFR. During periods of rainfall, the playas collect surface runoff to form ephemeral playa lakes.

An arroyo drainage rises in the southwest corner of Melrose AFR, at the intersection of the West and South mesas, and extends about four miles to the northeast across the active impact area before its surface expression fades out. Other than the arroyo, no streams or integrated drainage pattern exists on or near Melrose AFR. An impoundment formed by an earthen dam about a mile upstream of the drainage's terminus intermittently stores surface water during periods when precipitation is sufficient to generate flow. During most of the year both the arroyo and impoundment are dry. No other surface water bodies are located within Melrose AFR except minor ephemeral channels including the Chapman Draw and the Cañada del Tule, which originate at the Mesa.

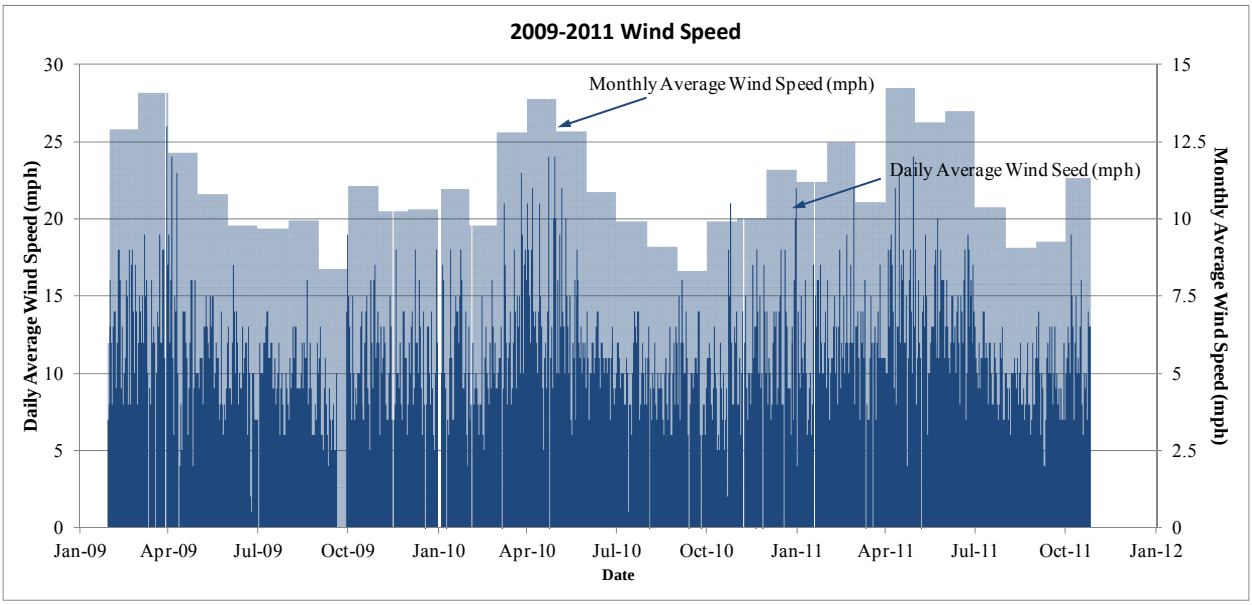
1.2.6 Climate

The climate of the east-central New Mexico area is tropical semiarid. Based on data collected from 1914 to 2007 for the village of Melrose, the average annual minimum and maximum temperatures are 42.3 and 72.8 degrees Fahrenheit (°F); the maximum temperatures and precipitation occur during the summer months. The Melrose area is characterized by highly variable precipitation patterns; the average monthly precipitation ranges from 0.42 inches in January to 2.91 inches in July. The average annual precipitation is 16.19 inches, and most of the precipitation is lost to evaporation. Annual pan evaporation at a weather station in Clovis, New Mexico, is 86.68 inches; evaporation is greatest between May and August (Western Regional Climate Center). In the chart below, recent local rainfall (daily and monthly) is plotted for Melrose AFR. As is evident from the chart, the site vicinity receives the majority of annual rainfall during the summer months. The total annual rainfall for 2010 and 2011 (current as of November 21, 2011) was 20.06 and 7.02 inches, respectively. Rainfall in 2010 exceeds the annual average for the vicinity of 16.19 inches (Weather Undergound, 2011). Rainfall in 2011 is below the annual average. The area is characterized by highly variable precipitation patterns, the apparent greater than normal rainfall in 2010 and the lower than normal in 2011 may not be altogether atypical.



Prevailing winds are from the west with an average speed of eight miles per hour. Windblown

dust is generated frequently in this region of the country because the winds are often gusty and the climate is semiarid. The Texas Panhandle/eastern New Mexico area is considered to have the highest dust particulate counts in the continental United States; occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the average daily wind speed commonly exceeds 20 to 20 miles per hour (mph) and the average monthly wind speed approaches 15 mph (Weather Undergound, 2011).



1.3 MONITORING PLAN

1.3.1 Semiannual – SWMU Groundwater Quality Network Monitoring Requirements

Based on the previously approved Work Plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) (Trinity Analysis & Development Corp., 2011) the current groundwater monitoring plan provides for semiannual testing at ten wells associated with the Semiannual SWMU Groundwater Quality Network. A proposed alternate background monitoring well (MWQ-23), was sampled as part of the 2011 sampling schedule. As previously discussed, sampling of MWQ-23 is to be discontinued and a new background well upgradient of the SWMUs will be proposed by TRINITY adjacent to MWQ-10 in a separate Well Installation Work Plan. The accompanying tables summarize current testing requirements.

Analyte	Field Parameters [1]	VOCs [2]	Explosives [3]	Metals [4] (Total & Diss.)	Chromium (VI)	Cyanide	Mercury	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	**NA**	**8260B**	**8330**	**6010C**	**7196A**	**9012A**	**7470A**	**300.0**	**300.0**	**6860**	**2320B**	**2540C**
M114MW001	x	x	x	x	x	x	x	x	x	x	x	x
M114MW002	x	x	x	x	x	x	x	x	x	x	x	x
M114MW003	x	x	x	x	x	x	x	x	x	x	x	x
M114MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW001	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW002	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW003	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO2MW001D	x	x	x	x	x	x	x	x	x	x	x	x
MWQ-23	x	x	x	x	x	x	x	x	x	x	x	x

Semiannual - SWMU Groundwater Quality Network

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] VOCs: Target Compound List

[3] Explosives: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene, 4-Nitrotoluene, HMX, Nitrobenzene, RDX, Tetryl

[4] Metals: Target Analyte List

1.3.2 Annual Groundwater Quality Network Monitoring Requirements

Based on the previously approved Work Plan (Tidewater, Inc., 2010) and the Ground Water Monitoring Project Work Plan (Trinity Analysis & Development Corp., 2011) the current groundwater monitoring plan provides for annual testing at 14 wells associated with the Annual Groundwater Quality Network. The accompanying tables summarize testing requirements.

Annual - Groundwater Quality Network

Analyte	Field Parameters	Metals (Total & Diss.)	Chromium (VI)	Cyanide	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	NA	6010C	7196	9012A	353.2	300.0	314.0	2320B	2540C
MWQ-2	x	x	x	x	x	x	x	x	x
MWQ-3	x	x	x	x	x	x	x	x	x
MWQ-4	x	x	x	x	x	x	x	x	x
MWQ-5	x	x	x	x	x	x	x	x	x
MWQ-6	x	x	x	x	x	x	x	x	x
MWQ-7	x	x	x	x	x	x	x	x	x
MWQ-10	x	x	x	x	x	x	x	x	x
MWQ-14	x	x	x	x	x	x	x	x	x
MWQ-18	x	x	x	x	x	x	x	x	x
MWQ-19	x	x	x	x	x	x	x	x	x
MWQ-20	x	x	x	x	x	x	x	x	x
MWQ-21	x	x	x	x	x	x	x	x	x
MWQ-22	x	x	x	x	x	x	x	x	x
MWL-6	x	x	x	x	x	x	x	x	x

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] Metals: Target Analyte List

1.3.3 Data Summary

Although this report includes readily available historical water quality data collected since January 2004, the focus of this report is on data collected in the most recent one-year reporting period (2011). The table below summarizes the known water quality testing events conducted at Melrose AFR and presented in this report.

Summary of Water Quality Test Events

Sampling Event			USGS January 2004[1]	USGS July 2004[2]	USGS July 2005[1]	USGS June 2007[2]	Initial Baseline Ground Water Monitoring[3, 4]	2010 Spring Semiannual & Annual Sampling Event[4,5]	2010 Fall Semiannual Sampling Event[5]	2011 Spring Semiannual & Annual Sampling Event[4,5]	2011 Fall Semiannual Sampling Event[5]
Sample Dates		Start	1/12/2004	7/19/2004	7/18/2005	7/18/2007	1/20/2009	1/26/2010	10/25/2010	5/3/2011	9/27/2011
		End	1/15/2004	7/21/2004	7/20/2005	7/22/2007	2/3/2009	3/4/2010	10/29/2010	5/18/2011	10/3/2011
Semiannual - SWMU Ground Water Monitoring Well Network	SWMU 114	M114MW001	---	---	---	---	x	x	x	x	x
		M114MW002	---	---	---	---	x	x	x	x	x
		M114MW003	x	x	x	x	x	x	x	x	x
		M114MW004	---	---	---	---	x	x	x	x	x
	SWMU 117	M117MW001	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW002	---	---	---	---	x	DRY	DRY	DRY	Abandoned
		M117MW003	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW004	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 130	MAO1MW001	---	---	---	---	x	x	x	x	x
		MAO1MW002	---	---	---	---	x	x	x	x	x
		MAO1MW003	x	x	---	---	x	x	x	x	x
		MAO1MW004	---	---	---	---	x	x	x	x	x
	SWMU 131	MAO2MW001D	x	x	x	x	x	x	x	x	x
		MAO2MW001S	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 132	MAO3MW001	---	---	---	---	---	---	---	DRY	Abandoned
	MWQ-23		---	---	---	---	---	---	---	x	x
Annual - Ground Water Quality Well Network	MWQ-2		x	x	x	x	x	x	---	x	---
	MWQ-3		x	x	x	x	x	x	---	x	---
	MWQ-4		---	---	---	x	x	x	---	x	---
	MWQ-5		x	x	x	x	x	x	---	x	---
	MWQ-6		x	x	---	x	x	x	---	x	---
	MWQ-7		---	---	---	x	x	x	---	x	---
	MWQ-8		---	---	---	x	DRY	DRY	---	DRY	---
	MWQ-10		x	x	x	x	x	x	---	x	---
	MWQ-14		x	x	x	x	x	x	---	x	---
	MWQ-18		---	---	x	x	x	x	---	x	---
	MWQ-19		---	---	---	---	x	x	---	x	---
	MWQ-20		---	---	x	x	x	x	---	x	---
	MWQ-21		---	---	x	x	x	x	---	x	---
	MWQ-22		---	---	x	x	x	x	---	x	---
	MWL-6		---	---	x	x	---	x	---	x	---

x = sampled; --- = not sampled

[1] Filtered ground-water samples were analyzed for explosives, metals, nitrate plus nitrite, ammonia as nitrogen, phosphorus, anions (bromide, chloride, fluoride, and sulfate), sulfide, organic carbon, alkalinity, dissolved solids, and perchlorate.

[2] Filtered ground-water samples were analyzed for volatile organic compounds, semi-volatile organic compounds, organochlorine pesticides, organophosphorus pesticides, metals, anions (bromide, chloride, fluoride, and sulfate), alkalinity, dissolved solids, organic carbon, phosphorus, sulfide, ammonia, nitrate plus nitrite, and perchlorate.

[3] 2009 Semiannual samples were collected and analyzed for VOCs, SVOCs, organochlorine pesticides, metals, hexavalent chromium, perchlorate, bromide, chloride, fluoride, sulfate, explosives, TOC, phosphate, and ammonia.

[4] 2010-2011 Annual samples were collected and analyzed for metals, TDS, hexavalent chromium, alkalinity, TOC, phosphate, ammonia, and nitrate/nitrite.

[5] 2010-2011 Semiannual samples were collected and analyzed for VOCs, explosives, metals, chloride, sulfate, nitrate, nitrite, total dissolved solids, alkalinity, cyanide, perchlorate, and hexavalent chromium.

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2.0 SCOPE OF SERVICES

2.1 SUMMARY OF FIELD ACTIVITIES

The Annual Groundwater Monitoring Report focuses on data collected during the most recent one-year reporting period (2011). The 2011 spring sampling event, which included sampling associated with both the Semiannual SWMU Groundwater Quality Network and the Annual Groundwater Quality Network was conducted between May 3 and May 18, 2011. The 2011 fall sampling event, which included sampling associated with the Semiannual SWMU Groundwater Quality Network was conducted between September 26 and October 3, 2011.

The most recent field activities were completed in general accordance with field protocols included in the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp.). Activities accomplished during the recent field sampling events included the following:

- inspected the monitoring well network (Semiannual SWMU Groundwater Quality Network and the Annual Groundwater Quality Network),
- collected groundwater levels from the entire monitoring network,
- collected groundwater samples from the Semiannual SWMU Groundwater Quality Network and the Annual Groundwater Quality Network,
- abandoned six shallow, dry wells,
- conducted well head maintenance, and
- geophysically logging selected wells.

Activities associated with each task are discussed in more detail below. Semiannual sample locations are depicted on **Figure 3**, Annual sample locations are depicted on **Figure 7**, and well construction details are summarized in **Table 1**.

2.1.1 Monitoring Well Network - Groundwater Sampling

Prior to sampling, the wells were purged using low-flow sampling techniques using a QED SE-1102PM stainless steel bladder pump or a Proactive SS Mega-Monsoon stainless steel

submersible pump. Field parameters were monitored with an YSI 600-XLM multi-parameter water quality meter with attached flow through cell. The YSI multi-parameter water quality meter monitored dissolved oxygen (DO), temperature, pH, conductivity, and oxidation reduction potential (ORP). Turbidity was monitored with a Hanna HI-98703 Turbidity Meter. Groundwater levels were measured prior to pumping and during pumping to monitor drawdown. Water levels were measured with a Solinst Water Level Meter (600 foot). The water quality meter was calibrated once per day before use. The turbidity meter was calibrated at the commencement of sampling activities, with the calibration verified each day of use, per the manufacturers' instruction. Field Methods are provided in **Appendix A** and Field Data in provided in **Appendix B.**

Gulf Coast Analytical Laboratories, Inc. (GCAL), Baton Rouge, LA was used for sample analysis during this investigation. GCAL is accredited in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) (Certificate Number 01955), and the DoD Environmental Laboratory Accreditation Program (ELAP) (Certificate Number 1482). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents. Analytical data validation was conducted by third party Environmental Data Professional, LLC (eDATApro), Lake Charles, LA.

In accordance with the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp.) a quality control-split sample was collected and submitted to an alternate laboratory. The purpose of the split sample was to use the alternate laboratory to verify the accuracy of the primary laboratory. Accutest Laboratories (Accutest), Tampa, FL was used for analysis of the split sample. Accutest is accredited in accordance with the NELAC (Certificate Number E83510), and the DoD ELAP (Certificate Number L2229). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents.

In accordance with the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp.), Field Duplicate samples and Equipment Blanks were collected at a 10-percent rate (i.e., one per every 10

samples collected) for all parameters. Laboratory quality control (QC) samples, including matrix spike/matrix spike duplicates (MS/MSDs), were collected at a 5-percent rate (i.e., one per every 20 samples collected) for all parameters. Trip Blanks were analyzed for VOCs and were included in each cooler shipped to the laboratory from the field. Split Samples were collected at a 5-percent rate (i.e., one per every 20 samples collected). For ease of reporting the Annual Groundwater Quality Network and the Semiannual Groundwater Quality Network were reported by the laboratory as separate Sample Delivery Groups (SDGs). As such, QC samples collected in the field are associated with one or the other SDG but not both. All Trip Blanks are associated solely with the Semiannual Groundwater Quality Network as VOCs are not collected as part of the Annual Groundwater Quality Network.

Analysis of samples within the prescribed holding time is critical to ensuring that samples may be considered valid and representative of the sample matrix. Sample holding time is defined as the interval between sample collection and sample preparation/analysis. Allowable holding times for analyses employed in this investigation are included in the table below.

Appropriate Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Method	Container	Preservation	Maximum Holding Time
Alkalinity	SM2320B	Plastic	Cool, ≤6 °C	14 days
Cyanide	SW 846 9012A	Plastic	Cool, ≤6 °C, NaOH to pH>12	14 days
Explosives	EPA 8330	Glass Amber	Cool, ≤6 °C	14 days
Hexavalent Chromium	SW 846 7196A	Plastic	Cool, ≤6 °C	24 hours
Metals	EPA 6010C	Plastic	HNO3 to pH<2	6 months
Nitrate + Nitrite	EPA 353.2	Plastic	Cool, ≤6 °C	48 hours
Perchlorate	EPA 314.0	Plastic	Cool, ≤6 °C	28 days
Chloride, Sulfate	EPA 300.0	Plastic	Cool, ≤6 °C	28 days
Total Dissolved Solids	SM2540C	Plastic	Cool, ≤6 °C	7 days
VOCs	8260B	G, FP-lined septum	Cool, ≤6 °C, HCl to pH 2	14 days

Samples intended for chemical analyses were packed on wet ice in sealed coolers for preservation during transport to the laboratory. Preservation ensures a temperature of 4º ±2°Celsius (°C) upon receipt by the contract laboratory. Samples were shipped by overnight commercial courier to the designated laboratory. Proper shipping and handling protocol included: filling of containers with an appropriate amount of sample medium, ensuring that container lids were tight, ensuring that labels were completed, wrapping containers in bubble

wrap for protection, double bagging of ice, and inclusion of appropriate quality assurance/quality control (QA/QC) blanks. Chain-of-custodies (COCs) accompanied samples in a waterproof plastic bag taped to the inside of the cooler lid. Copies of the COCs are provided in **Appendix B**.

Decontamination procedures were in general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011). Sufficient quantity of clean equipment was transported to the field to last the entire day. Disposable equipment was used when possible to eliminate the possibility of cross contamination. Additionally, new sample containers for laboratory analyses were provided by the laboratory for each sample collected.

2.1.1.1 2011 Semiannual Spring - Groundwater Quality Network

Groundwater samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	05/09/2011 09:55
	M114MW002	05/06/2011 11:35
	M114MW003	05/06/2011 14:30
	M114MW004	05/05/2011 15:16
SWMU 130	MAO1MW001	05/09/2011 14:16
	MAO1MW002	05/16/2011 09:35
	MAO1MW003	05/10/2011 13:20
	MAO1MW004	05/10/2011 11:11
SWMU 131	MAO2MW001D	05/05/2011 12:23
Proposed Background	MWQ-23	05/16/2011 11:10

The monitoring wells were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. As previously discussed, limited to no well construction information is available for the majority of the wells at Melrose AFR. Specifically, the screened interval for most wells is unknown. All wells, where applicable, were sampled from approximately two to five feet from the bottom of the well. It is possible that the wells are constructed with a large sump, but unlikely. Therefore, all monitoring wells were likely sampled from within the screened interval. Sample locations are depicted on **Figure 3** and **Figure 7** and well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field

data from the most recent sampling event and historic data are provided in **Tables 2** through **Table 6**.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Incorporating maximum expected well and tank parameters purge volume of approximately 100 gallons was estimated. This is necessary to provide an assurance that the groundwater being collected is representative of the groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump was opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters were then collected. As previously stated, TRINITY is proposing to remove MWQ-23 from the sampling network as no well construction details are known and it does not appear to represent an ideal background sampling location for the SWMUs.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MW114MW001
- MS/MSD: MAO1MW001
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5, TB-6, TB-7, TB-8, and TB-9 (TB-3 was submitted to Accutest as part of the Split Sample)

2.1.1.2 2011 Annual Spring - Groundwater Quality Network

Groundwater samples were collected from the following wells at the dates and times specified:

Sampling Schedule

	MWQ-2	05/05/2011 09:26
	MWQ-3	05/03/2011 09:15
	MWQ-4	05/03/2011 10:18
	MWQ-5	05/03/2011 11:57
	MWQ-6	05/03/2011 13:12
Background	MWQ-7	05/03/2011 13:53
Background	MWQ-10	05/03/2011 15:23
	MWQ-14	05/13/2011 12:31
	MWQ-18	05/12/2011 12:40
	MWQ-19	05/12/2011 09:50
	MWQ-20	05/17/2011 13:22
	MWQ-21	05/11/2011 13:05
	MWQ-22	05/11/2011 11:01
	MWL-6	05/18/2011 14:30

Due to the depth to water and the total depth of the wells, MWQ-2, MWQ-20, and MWQ-22 were purged and sampled using low-flow sampling techniques by using a QED SE-1102PM stainless steel bladder pump. Wells MWQ-14 and MWL-6 were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. With the exception of MWQ-4, the remaining wells are plumbed with pressure tanks and dedicated submersible pumps. Well MWQ-4 is plumbed with a dedicated submersible pump powered by a solar panel and is not plumbed to a pressure tank.

Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10 have pressure tanks (approximately 20 to 50 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, purge volumes are estimated to range from 100-350 gallons. This is necessary to provide an assurance that the groundwater being collected is representative of the groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump was opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters

were then collected.

In the review, dated October 27, 2009, of the *Final Report: Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009) NMED stated:

> "*NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
>
> *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…*"

TRINITY therefore proposes to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the groundwater sampling network. A proposal to remove MWQ-10 from the network will not be requested until installation of the new background well has been completed.

Sample locations are depicted on **Figure 3** and **Figure 7** and known well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in **Table 2** through **Table 6ai**.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MWQ-5 and MWQ-20
- MS/MSD: MWQ-10 and MWQ-14
- Split Sample: MWQ-22
- Equipment Blank: EB-2
- Trip Blanks: numerous

2.1.1.3 2011 Semiannual Fall - SWMU Groundwater Quality Network

Groundwater samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	09/30/2011 12:36
	M114MW002	10/03/2011 09:32
	M114MW003	10/03/2011 11:46
	M114MW004	09/30/2011 10:00
SWMU 130	MAO1MW001	09/27/2011 09:33
	MAO1MW002	09/29/2011 13:06
	MAO1MW003	09/27/2011 12:21
	MAO1MW004	09/29/2011 11:10
SWMU 131	MAO2MW001D	09/28/2011 10:28
Proposed Background	MWQ-23	09/29/2011 08:40

The monitoring wells were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. All monitoring wells were sampled from within the screened interval. Sample locations are depicted on **Figures 3** and **Figure 7** and well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in **Table 2** through **Table 6ai**.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, a volume of approximately 100 gallons was estimated and purged. This is necessary to provide an assurance that the groundwater being collected is representative of the groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump was opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters were then collected. As previously stated, TRINITY is proposing to remove MWQ-23 from the sampling network as no well construction details are

known and it does not appear to represent an ideal background sampling location for the SWMUs.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: FD-1
- MS/MSD: MAO1MW003
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5 and TB-6 (TB-3 was submitted to Accutest as part of the Split Sample)

2.1.2 Investigation Derived Waste

Investigation-derived waste (IDW) from the Spring 2011 sampling event consisted of purge and decontamination water. All IDW collected during groundwater sampling was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into 55-gallon drums located at a designated area for IDW storage. The 55-gallon drums contained a limited amount of purge water from sampling conducted by URS in 2009. All IDW storage drums were labeled according to the field sampling plan outlined in the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011). During the Fall 2011 Sampling event TRINITY coordinated with Eco-logical Environmental Services, Inc. (ECO) for proper disposal on non-hazardous waste. ECO mobilized to Melrose AFR on October 5, 2011 to pick up the IDW. ECO transported and disposed of the IDW at Southwest Landfill in Canyon, Texas. Copies of the Waste Manifest are included in **Appendix B**.

IDW from the Fall 2011 sampling event was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into a 250-gallon carboy located at a designated area for IDW storage. TRINITY

has submitted copies of the laboratory data to Cannon AFB for submittal to NMED. NMED has since given authorization for disposal of the IDW. The IDW will be disposed of in accordance with the approved work plan (Tidewater, Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011).

2.1.3 Groundwater Elevation Measurements

Water levels were measured from the surveyed elevation reference points on the tops of the polyvinyl chloride (PVC) casings or, in the case of metal or concrete well casings, from the highest point of the casing using a Solinst Water Level Meter (600 foot). Measurements were taken to the nearest hundredth of a foot, and were documented in the log book. The probes were decontaminated before use, between wells, and at the conclusion of measurement activities. Recent and historical groundwater level measurement information is presented in **Table 2**.

Water levels from the Spring 2011 sampling event were collected prior to the start of groundwater sample collection at all accessible monitoring wells prior to well purging and sampling between May 3 and May 18, 2011. Water levels from the Fall 2011 sampling event were collected between September 26, 2011 and October 3, 2011.

Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10 and water-level only wells MWL-1, MWL-2, and MWL-3 and MWQ-23 contain pumps, integral plumbing, and in most cases live electrical wires. Therefore, water levels are not routinely taken due to the electrical shock hazard and high likelihood of the water level tape becoming entangled in the wiring. Additionally, water-level only wells MWL-2 and MWL-3 are located adjacent to the Jockey Live Fire Range. Due to their proximity to live-fire range, TRINITY has only accessed MWL-2 once and has never been provided access to inspect or collect water levels from MWL-3.

2.1.4 Monitoring Network Well Inspection/Maintenance

Well inspections sought to verify presence of: identification tag, total well depth, well type completion, presence, and condition of bollards, protective casings, well pads, type of cap, etc. Well conditions for the Semiannual SWMU Groundwater Quality Network and Annual

Groundwater Quality Network are summarized in **Table 1** and a photographic log of the wells inspected is presented in **Appendix C**. As previously stated access to MWL-2 and MWL-3 is restricted/limited due to their proximity to the Jockey Live Fire Range.

2.1.5 Monitoring Well Abandonment

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon six wells. The six "dry" wells previously approved for abandonment by NMED are M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001. TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer.

2.1.6 Geophysical Logging Activities

The geophysical logging suite selected consisted of natural gamma and induction resistivity logs. These logs were selected because of their ability to provide 'through-casing' measurements of various geophysical properties of the target formation(s).

2.1.6.1 Gamma Logs

The natural gamma log is the most widely used nuclear log in groundwater applications. The log provides a vertical profile or record of gamma radiation emitted by unstable elements in the formation. In most sedimentary environments, the radiation measured by the probe comes primarily from potassium-40 and daughter products of the uranium and thorium decay series. Of these three nuclides, potassium-40 originating from clay minerals such as illite (mica) and montmorillonite is usually the major contributor gamma radiation. As the logging probe is cycled in or out of the well, its scintillation detector receives gamma radiation emanating from the formation opposite the probe. Approximately 90% of the radiation measured by the probe originates within the first 6-12 inches of the formation being investigated. The scintillation detector uses a crystal that emits light when struck by gamma rays, which is then amplified and converted to an electrical signal by a photomultiplying tube. The electrical signal is then processed into a numerical value (counts per second) that is recorded versus depth.

The gamma log has many uses in hydrogeology that are applicable to the geology/hydrogeology at Melrose AFR. The most common uses are lithologic identification and stratigraphic correlation, which are particularly relevant to mapping groundwater flow regimes and migration of contaminants. Other uses include qualitative identification of relative grain size trends in vertical profile and interpretation of depositional environment (also relevant to groundwater flow and contaminant transport). The gamma log is also used for collecting data of a confirming or validating nature regarding well construction. Its ability to read though well casing make it useful for auditing physical descriptions of sediments recorded in boring logs and verifying well screen targets.

Various rock types and sediments can be characterized by their gamma intensity, but the ranges of intensities are variable and often common to several materials, hence some background knowledge of local geology is needed to correctly interpret the gamma log. With respect to the Ogallala Aquifer and Chinle Formation, interpretation is based primarily on the assumption that clay and fine-grained detrital sediments contain more radioactive elements than quartz sand and are thus distinguished from the latter by greater gamma intensity. High counts/second readings on the log are interpreted to be more clayey sediment; low counts/second readings are interpreted as more sandy material. While the gamma log can be used to calculate clay content in some cases, particularly where enough laboratory data has been collected to support an empirical relationship, it is most commonly used as a qualitative indicator of sand and clay.

Extraneous effects that can complicate gamma log interpretation need to be considered when viewing the logs. Some of the more important ones relevant to the geology/hydrogeology at Melrose AFR include the fact that radioactive elements and minerals such as uranium and biotite may be present in sands, uranium can be concentrated in organic layers, and all clays are not necessarily equal in their gamma intensity. Extraneous effects relevant to any logging effort include tool position in the well (an eccentralized probe can give a different response than a centralized probe in larger diameter holes (≥8-inch diameter); borehole diameter has an effect on measured radiation, as do washouts and oversized filter-packs (the farther the formation is from the probe, the fewer counts/second received at the detector); a logging speed that outpaces the

tool's sampling capability will skew the log's output; well construction materials can affect the gamma intensity measured by the probe, either increasing the counts/second because of radioactive minerals in construction materials (e.g., bentonite seal) or dampening counts/second (steel casing versus PVC casing).

The most accurate interpretation of the gamma log is made when these details are considered and the log is supplemented with other geophysical logs and drilling reports.

2.1.6.2 Induction Resistivity Logs

Electromagnetic induction resistivity logs are commonly used in plastic-cased boreholes since their operation does not require contact with the formation or the presence of a conductive fluid in the borehole. While the tool actually measures the electrical conductivity of the formation, its inverse (resistivity) is traditionally presented as the logging product.

The induction probe relies on two coils, one to transmit alternating current into the surrounding formation and a second coil to receive the return signal. As the probe passes through the well, the transmitted alternating current induces eddy currents in the formation that form a secondary magnetic field that in turn induces a voltage in the receiving coil. The received signal is amplified, converted to direct current, and transmitted up the cable to the logger, where it is manipulated to provide a record of resistivity (ohm-m) versus depth.

The electrical conductivity of a porous formation is a function of the combined electrical conductivity of the matrix material and the pore fluid. The resistivity plotted on the log is the inverse of the average conductivity of a constantly varying volume of material surrounding the probe. The volume of investigation depends partly on the nature of the formation material being investigated, but mostly on coil spacing, which varies between different manufacturers. Most induction probes investigate a sphere less than about 60 inches in diameter and are designed to be relatively insensitive to materials within a few inches of the sonde or probe axis.

Induction logging provides hydrogeologists with a mechanism for making resistivity measurements in wells where this information was not collected during drilling. Since formation

resistivity is affected by the porosity, permeability, and clay content of the formation and by the dissolved solids concentration of the water within the formation, its potential applications in studies of freshwater aquifers such as the Ogallala Aquifer would be expected to be numerous. In practice, however, its application is limited because the tool is most responsive to small changes in resistivity in low-resistivity environments. Best results are achieved in formations with resistivities less than about 200 ohm-m. Bulk resistivity in the Ogallala Aquifer is routinely greater than 200 ohm-m. Despite this limitation, the tool can still produce important subsurface information, particularly when paired with the natural gamma log. Some of the more common uses of the induction resistivity include locating freshwater/saltwater interfaces, saltwater intrusion monitoring, delineation of bed boundaries, water quality mapping (quantitative delineation is possible using empirical relationships established with sufficient laboratory data), and tracking of both conductive and non-conductive contaminant plumes.

The general concept for interpretation of the induction resistivity log in unconsolidated, granular freshwater aquifers such as the Ogallala Aquifer is that highest resistivities are usually associated with clean quartz sands saturated with low-TDS water and lower resistivities occur in finer-grained, clayey sediment. The resistivity recorded on the log is an apparent resistivity measurement or bulk measurement that includes the effect of all materials in the electrical path between transmitter and receiver. Upon development of a reliable formation factor, the bulk resistivity measurement can be corrected and used to calculate the resistivity of the formation water, which has many uses in water quality evaluation. Accurate interpretation of the resistivity log requires that extraneous effects be considered. Anything that affects water chemistry around the well can have effect on the resistivity measurement. Introduction of foreign fluids to the formation such as invasion of drilling fluids during well drilling and impacted groundwater from contaminated sites can have effect. Other common influences include the degree of saturation in the formation's pore space, bed thickness, and presence of conductive objects used in well construction.

2.1.6.3 Logging Equipment

Geophysical logging was accomplished using digital wire-line equipment manufactured by Mount Sopris Instrument Co., Inc. of Golden, Colorado. The logging probes (2PGA-1000

natural gamma and 2PIA-1000 induction resistivity) were connected to a 4MXC-1000 winch with ⅛-inch single-conductor cable used to transmit log data to a MGX II log acquisition console for processing (MS-Log log acquisition software). The logger was operated with a Windows-based PC and the entire system was powered with a portable generator.

Details on the 2PGA-1000 gamma probe are summarized in the accompanying table.

2PGA-1000 (Natural Gamma, SP, Single Point Resistance)

Length	79.5 cm (31.3")
Diameter	41 mm (1.63")
Weight	3.2 Kg (7 lbs)
Pressure Rating	13,790 kPa (2000 PSI)
Operating Temperature	10 - 70°C (14 - 120°F)
Sensor (Detector)	Na(tl) scintillation 22.2 mm dia. x 76.2 mm long (0.875 x 3")
Measurement Range	0 - 100,000 CPS gamma ± 1,500 mV SP 1 - 500 Ohms SPR
Accuracy	± 1% of full scale
Resolution	0.02% of full scale

Details on the 2PIA-1000 induction probe are summarized in the accompanying table. The coil array on the induction probe is designed to be insensitive to materials at a radial distance of less than about four inches from the sonde. Vertical resolution of the tool is approximately two feet. The volume of investigation is similar to that of a 16-inch normal resistivity probe.

2PIA-1000 Electromagnetic Induction

Length	158 cm (62.2")
Diameter	39 mm (1.5")
Weight	2.7 Kg (6 lbs)
Pressure Rating	10500 kPa (1500 PSI, higher pressure housing avail)
Operating Temperature	-20 to 50°C (6 - 122°F)
Sensor (Detector)	Magnetic-induced electric field coils @ 25 & 50 cm
Measurement Range	0 -10,000 mS/Meter
Accuracy	5% of full scale
Resolution	0.02% of full scale

2.1.6.4 Logging Procedure

Three deep wells (MWQ-2, MWQ-20, and MWQ-22) that are screened in the Chinle Formation were selected based on their total depths and lateral distribution across Melrose AFR. Two

shallow wells (M117MW001 and M117MW004) scheduled for abandonment were also logged. The following procedure was followed for each of the wells that were geophysically logged:

- The gamma probe was connected to the logging unit, centered over the well, and referenced to the well's top of casing. The probe was cycled to the bottom of the well (logger TD) and this measurement was compared to the physical TD measurement previously recorded. The probe was then retrieved from the hole and 'logged up' (geophysical data collected only while logging up the hole). Logging speed was 10-12 feet/minute. The wire-line was cleaned (rinse/Liquinox wash/rinse/isopropyl alcohol wipe) as the probe was retrieved from the hole. After logging, the probe was disconnected and similarly cleaned.
- The induction logging run was similarly conducted, except that a 10-15 minute temperature stabilization period was allowed for the tool while at the bottom of the well.
- Raw logging data (".las" and ".rd" data files) generated by the MS-Log acquisition software was imported into WellCAD, a Windows-based well management software package, and then processed.

2.1.6.5 Quality Assurance/Quality Control

Quality control was achieved primarily by following uniform logging procedure from well to well. Key practices included the use of the same logging equipment and tools throughout the logging project, maintaining consistent logging speed (10-12 feet/minute), and maintaining consistent logging direction (all wells were logged 'up'). Other relevant practices included careful positioning of the probes to a consistent reference point (top of well casing) and removing slack from the wire-line cable to measure true TD. The induction resistivity tool was also calibrated at the start of each day of logging (gamma tool does not need this).

Depth accuracy was checked using two methods. Well depths were manually measured with electronic water level indicator and compared to depths recorded by the logger. Good agreement between the two measurements was observed as differences seldom exceeded 0.10 feet. An internal check was also made by comparing the logger's depth display to a mark on the wire-line that was referenced to starting and finishing points. Depth error was routinely less than 0.2 feet.

3.0 REGULATORY CRITERIA

To determine whether potential site-related contaminants exceed groundwater screening guidelines the following procedure will be prioritized as follows:

1. Water Quality Control Commission (WQCC), New Mexico Administrative Code (NMAC) Title 20 Environmental Protection, Chapter 6 Water Quality, Part 2 Ground and Surface Water Protections, Section 20.6.2.3103 Subsections A, B, and C values will be compared with the *United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels for Drinking Water (primary and secondary)*. The lower value for either of these lists will be applied per analyte.
2. In the absence of a limit under the WQCC or USEPA Drinking Water standards, screening levels for tap water as published in the NMED *Technical Background Document for Development of Soil Screening Levels, Revision 5 (NMED SSLs)(December 2009)* would be applied.
3. In the event that the above lists do not have a value for a contaminant of concern, values found in the *USEPA Regional Screening Levels for Contaminants at Superfund Sites (RSLs) (May 2010)* would be used for evaluation.

The groundwater screening guidelines are included on all appropriate tables. Exceedances of groundwater screening guidelines are highlighted in red.

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4.0 GROUNDWATER MONITORING RESULTS

4.1 Field Water Quality Measurements

As requested by NMED, this report is written and organized in general accordance with the NMED *Position Paper, General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites,* (NMED, 2003). As such, limited to no discussion is provided below as tables "*summarizing … field water quality measurements can be substituted for this section.*" Applicable data is included in **Table 3a** and **Table 3b**.

4.2 Groundwater Elevation, Gradient and Flow Velocity

A comprehensive round of water levels was collected from the Semiannual SWMU Groundwater Monitoring Network and Annual Groundwater Monitoring Network by TRINITY between May 3, 2011 and May 18, 2011 (Spring 2011 Sampling Event) and September 26, 2011 and October 3, 2011 (Fall 2011 Sampling Event). Recent and historic groundwater elevations and trends are summarized in **Table 2**. Three groundwater flow maps are presented, in chronological order, as part of this report:

1. **Figure 5** - Median groundwater flow direction based on data collected and analyzed by the USGS between 2002 and 2003 (Langman, 2004);
2. **Figure 8** - Groundwater flow direction based on data collected by TRINITY between May 3, 2011 and May 16, 2011.
3. **Figure 9** - Groundwater flow direction based on data collected by TRINITY between September 26, 2011 and October 3, 2011.

Water-level contours for the Southern High Plains Aquifer indicate two groundwater flow systems – local and regional (**Figures 5**, **8**, and **9**). Locally, in southwest portions of Melrose AFR, groundwater flows northeast from the Mesa to the Portales Valley. Groundwater flow is southeast and east in the Portales Valley. This corresponds with the regional general flow direction for the Melrose AFR vicinity (Hart, 1985). A direct connection between the structural surface of the Chinle Formation confining unit and the direction of groundwater flow is evident. Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the

Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day. The hydraulic conductivities for wells in the regional flow system have not been determined. The groundwater gradient and flow velocities are summarized in the table below.

	gradient (ft/ft)		velocity (ft/y) [2]		
	local	regional	local		regional
			min	max	
1/1/2003 [1]	0.011	0.001	0.016	1.17	---
1/16/2009	0.015	0.001	0.022	1.60	---
10/25/2010	0.011	0.002	0.016	1.17	---
5/3/2011	0.014	0.002	0.020	1.49	---
9/26/2011	0.014	0.002	0.020	1.49	---

[1] The January 2003 groundwater flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).
[2] Darcy's formula: V = KI/Ø where V = groundwater velocity in ft/d; K = aquifer hydraulic conductivity in ft/d; I = groundwater gradient in ft/ft; Ø = effective porosity. [3] The effective porosity is estimated to be 25 percent (Fetter, 1994).

It is not possible to calculate the flow velocity for groundwater in the vicinity of the Portales Valley (regional flow system) due to a lack of data such as hydraulic conductivities.

4.3 Well Condition Inspection/Maintenance

The condition of the wells in the network, based on the most current inspection, is summarized in **Table 1**. As discussed, maintenance activities were undertaken during the Fall 2011 sampling event in conjunction with well abandonment activities. However, due to inclement weather it was not possible to reinstall the bollards at well cluster MWQ-18/19, MWQ-20, or MAO1MW004. However, fresh fill has been placed under all well pads with noted erosion. The bollards will be reinstalled during 2012 sampling events.

It had previously been noted by TRINITY that MWL-6 had been open and that it appeared that silt, and possibly cattle feces/hair had accumulated in the bottom of the well. Licensed well driller Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on May 17, 2011 to redevelop the well. The well was redeveloped by evacuating the well column with a steel bailer operated from a pump repair truck. The well was bailed for approximately one hour, until all silt/sediment had been removed from the bottom of the well case. The well was then pumped continuously by TRINITY until clear non-turbid water was produced. Subsequent to sampling activities the well head was properly secured. Additional wells previously identified as open were also properly secured. They included MWQ-8, MWQ-13, MWL-4, MWL-5, and

MWL-10.

All accessible wells were surveyed on December 4, 2012. The results and details of the survey will be submitted to Cannon AFB under separate cover for submittal to NMED. Since TRINITY had the new survey data available prior to finalizing this report, TRINITY included the new top of casing elevations, well locations, etc. in associated tables, and re-created all appropriate figures that utilize this information.

In general, the condition of the Semiannual SWMU Groundwater Quality Network and Annual Groundwater Quality Network is adequate for groundwater quality sampling activities.

4.4 Well Abandonment Activities

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon the six wells (M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001). TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer. Monitoring well abandonment was conducted in accordance with *NMED, Ground Water Discharge Permit, Monitoring Well Construction, and Abandonment Guidelines, Revision 1.0, July 2008* (New Mexico Environment Department, 2008) and *Well Driller Licensing; Construction, Repair and Plugging of Wells, adopted August 31, 2005*, 19.27.4 (New Mexico Administrative Code, 2005).

The wells were abandoned by installing tremie pipe to the bottom of the well and tremie-grouting with neat Portland cement. The wells were filled with grout until overflow occurred, and then the tremie pipe was removed from the well. If the grout settled back into the well, it was continually topped off until the grout stabilized within a few feet of ground surface. Once grouting was complete, the well-pads, bollards, and protective metal casings were removed for proper disposal. The well pipe was cut-off just below ground surface and the land surface was restored as appropriate.

4.5 Geophysical Logging

The geophysical logging data collected is intended to enhance characterization of geology within the Ogallala and Chinle Formation at Melrose AFR. The geophysical logs are presented in **Appendix D** with the raw data. Comparison of the boring log (Langman, 2004) for MWQ-2 and the gamma and induction resistivity logs for this well allows for the determination of the contact between the Ogallala Formation and the Chinle Formation based solely on gamma and induction resistivity logs for other wells.

Four generalized cross-sections utilizing the logging data for determination of contacts have been constructed for Melrose AFR (**Figure 10**). It should be noted that our geologic interpretations are based almost primarily on the geophysical logging data. Supplemental data in the form of geologic surface interpretations by Langman (2004) were also utilized in the creation of the generalized cross sections. TRINITY has, to date, been unable to acquire the geologist's drilling logs for the deep Chinle wells MWQ-19, MWQ-20, and MWQ-22 at Melrose AFR.

5.0 GROUNDWATER CHEMICAL ANALYTICAL DATA

Although this report utilizes available historical data (groundwater elevations, hydraulic conductivities, water quality data, etc.) gathered since 1994, the focus of this report is on data collected in the most recent one-year reporting period (2011). Much of the information presented in this report is in the form of tables, charts, and diagrams. Limited discussion accompanies each section since most illustrations do not require detailed explanation. This report represents the second complete Annual Water Quality Report for Melrose AFR. A summary of analytical and field data from the most recent sampling event are provided in **Table 2** through **6ai** and includes parameter summary tables and trend plots. Chemical analytical reports (laboratory analytical data) are included in **Appendix E**. In accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) split samples were collected for submittal to an alternative laboratory. The analytical data for the split samples are also included in **Appendix E**.

The presence of metals in groundwater samples collected from monitoring wells can be natural, anthropogenic in origin, or both. Metals are common, naturally occurring, ubiquitous elements in sediments such as the Ogallala Formation, and in some instances may naturally exceed applicable standards. Elevated metals in groundwater samples may be an artifact of the well installation process in that formation damage incurred during drilling may not be sufficiently repaired and/or the well may not be completely developed, which result in elevated turbidity during well sampling. Additionally, and sometimes unavoidably, the targeting of less desirable strata, i.e., placing the screen intake opposite clayey sediment, can also result in the introduction of colloidal clay into samples, which may also produce high metals results. Sampling protocol can have significant effect on measured concentrations.

It is TRINITY's experience that for groundwater collected from wells installed in clastic aquifers such as this one, comparison of total and dissolved metals results is essential. Large discrepancies between total and dissolved results for groundwater collected in this type of environment suggests 'artificial' influence from the well. When similar concentrations for total and dissolved metals are reported during a single sampling event the total result is likely an accurate reflection of the metal concentration in groundwater moving through the aquifer, and

would suggest that the reported concentrations are ambient in origin, waste related, or both. To date, insufficient data has been collected to accurately determine a relationship between turbidity and elevated metals concentrations in total and dissolved groundwater samples.

Previous sampling events conducted at Melrose AFR have included dissolved (filtered) metals results. In the majority of sampling conducted prior to January 2010 only dissolved metals results appear to have been reported. NMED has previously accepted the use of dissolved metals data at Melrose AFR to support the argument that increased turbidity may result in increased metals concentrations. Documents where data has previously been submitted and accepted include but are not limited to:

- Phase I RCRA Facility Investigation for Melrose Air Force Range, 1996;
- RCRA Facility Investigation Report Addendum, 2003;
- Final Report, Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, 2009.

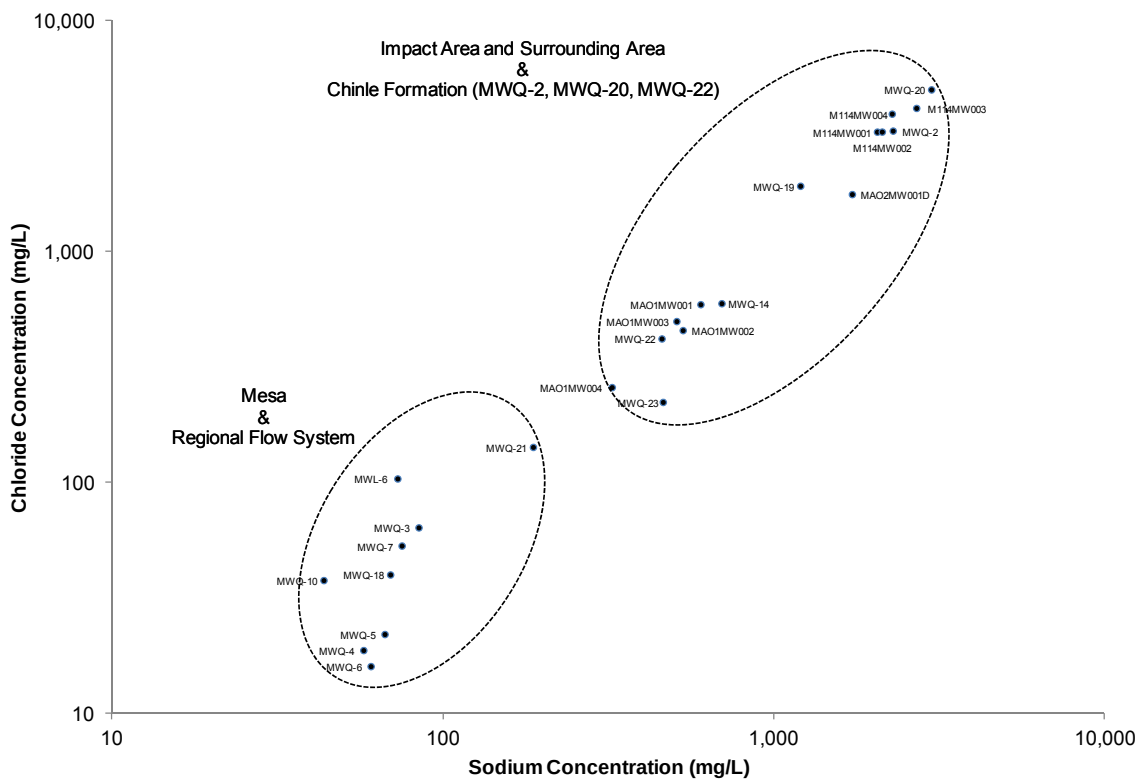
Although current direction from NMED is for the collection and use of total or non-filtered inorganic analytical results, it is TRINITY's professional opinion and is our suggestion to the USAF, that they continue to collect total and dissolved analysis for the inorganic analytes until a trend can be established.

Based on data validation of the 2011 sampling events, the data were determined to be valid and achieved data completeness. Chemical Analytical Program data (Quality Assurance Summary Report and data validation reports) are provided in **Appendix F**. All analytical data for the 2011 sampling events were evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA: Contract Laboratory Program, National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA: Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). All data was determined to be valid and achieved data completeness.

5.1 Groundwater Quality

5.1.1 Background/General Water Quality

Based on major ion chemistry, temperature, specific conductance, and TDS, etc. the USGS identified three sources of different groundwater in the immediate vicinity of the Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). However, water from the local flow system near the Mesa and water in the regional flow system in the Portales Valley were determined to be of somewhat similar quality. Based on the USGS findings, groundwater in the vicinity of the Melrose AFR Impact Area is a different flow system and not the same quality water as the Regional Flow System. The USGS inferred that the difference in water quality is likely attributable to the upward potential/migration of groundwater from the Chinle Formation. Using the same geochemical theory and comparison technique, TRINITY averaged all sodium/chloride concentration data available from 2004 to present. The data is plotted below (log-log scale):



As demonstrated in the plot above, the data plotted very similar to that of the USGS, indicating a higher quality of water in the Mesa area and the Regional Flow System (Portales Valley) than the

local flow system beneath the Impact Area. Based on the previously approved work plan (Tidewater, Inc., 2010) and recent direction by NMED, TRINITY will propose the installation of a new background monitoring well upgradient of the SWMUs adjacent to MWQ-10, in a separate Well Installation Work Plan.

5.1.2 Semiannual SWMU Groundwater Quality Network

This report represents the second complete Annual Water Quality Report for Melrose AFR. Available historic data is summarized in **Table 4a – 4e** and **Table 6a – 6ai** and includes parameter summary tables and trend plots. Recent field and laboratory analytical data are provided in **Table 3a – 3b** and **Table 5a – 5b**. Discussions provided below are based on data collected during the current reporting period. As requested by NMED, this report is written and organized in general accordance with the NMED *Position Paper, General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites*, *February 14, 2003*. As such, limited to no discussion is provided below as tables "*summarizing the groundwater and QA/QC chemical analytical data, applicable cleanup levels and modifications to the groundwater sampling program can be substituted for this section.*"

5.1.2.1 SWMU 114

Of the analyses performed, VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were undetected or were detected at concentrations below applicable screening guidelines. A total of four parameters were detected above applicable groundwater screening guidelines during the 2011 Annual reporting period. A summary of the exceedances of groundwater screening guidelines is provided below:

SWMU 114													
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	M114MW001		M114MW002		M114MW003		M114MW004	
						Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	<D.L.	78	78.8	<D.L.	63.6	67	<D.L.	<D.L.
					Sep-11	100	<D.L.	85.3	<D.L.	**200.0**	<D.L.	110	<D.L.
Chloride	**250**	250	---	---	May-11	3,280	---	3,660	---	4,550	---	4,180	---
					Sep-11	3,060	---	3,130	---	3,920	---	3,970	---
Sulfate	600	**250**	---	---	May-11	2,140	---	2,130	---	2,460	---	2,110	---
					Sep-11	1,810	---	1,580	---	1,880	---	1,630	---
TDS	1,000	**500**	---	---	May-11	8,270	---	7,800	---	9,540	---	7,000	---
					Sep-11	7,640	---	7,610	---	9,870	---	9,500	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

5.1.2.2 SWMU 130

Of the analyses performed, VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were either undetected, or were detected at concentrations below applicable screening guidelines. A total of five parameters were detected above applicable groundwater screening guidelines. A summary of the exceedances of groundwater screening guidelines is provided below:

SWMU 130													
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004	
						Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	**276**	105	<D.L.	164	111	<D.L.	<D.L.	<D.L.
					Sep-11	84.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	May-11	<D.L.	<D.L.	**102**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	5.29	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	May-11	**651**	---	**473**	---	**537**	---	**269**	---
					Sep-11	**525**	---	**431**	---	**477**	---	**251**	---
Sulfate	600	**250**	---	---	May-11	704	---	544	---	616	---	352	---
					Sep-11	**564**	---	**514**	---	**524**	---	**329**	---
TDS	1,000	**500**	---	---	May-11	1,980	---	1,780	---	1,760	---	1,110	---
					Sep-11	**1,990**	---	**1,720**	---	**1,790**	---	**1,130**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

5.1.2.3 SWMU 131

Of the analysis performed, VOCs, explosives, hexavalent chromium, or cyanide were either undetected or were detected at concentrations below applicable screening guidelines. A total of six parameters were detected above applicable groundwater screening guidelines. A summary of the exceedances of groundwater screening guidelines is provided below:

SWMU 131							
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MAO2MW001D	
						Total	Dissolved
Manganese	200	**50**	876	---	May-11	**248**	**208**
					Sep-11	**209**	**188**
Selenium	**50**	50	183	50	May-11	**94.7**	**107**
					Sep-11	**117**	**132**
Chloride	**250**	250	---	---	May-11	**2,190**	---
					Sep-11	**1,640**	---
Sulfate	600	**250**	---	---	May-11	**2,130**	---
					Sep-11	**1,860**	---
TDS	1,000	**500**	---	---	May-11	**6,290**	---
					Sep-11	**5,620**	---
Perchlorate	---	---	---	**15**	May-11	**22.4**	---
					Sep-11	**23.8**	**19.6**

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

Perchlorate was reported present in monitoring well MAO2MW001D at a concentration of 22.4 and 23.8 µg/L, above the screening criteria of 15 µg/L. The recent results appear to be in the same range as historic data (between 19.0 and 23.9 µg/L). During the Fall 2011 sampling event a dissolved perchlorate sample was also collected from MAO2MW001D. The total results (23.8 ug/L) were comparable to the dissolved results (19.6 ug/L). The results of a recent study of wells located throughout the High Plains indicate that perchlorate may be naturally occurring. The results of the study strongly indicate a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No evidence of specific activities associated with a release or discharge of perchlorate is noted at the installation, but due to Melrose AFB being an active military test range, an anthropogenic source cannot be completely

precluded. The reported concentrations of perchlorate in monitoring well MAO2MW001D are well within the naturally occurring background range discussed in the recent study (Rajagopala, et. al., 2006).

5.1.3 Annual Groundwater Quality Network

As requested by NMED, this report is written and organized in general accordance with the NMED *Position Paper, General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites*, *February 14, 2003*. As such, limited to no discussion is provided below as tables "*summarizing the groundwater and QA/QC chemical analytical data, applicable cleanup levels and modifications to the groundwater sampling program can be substituted for this section.*"

Of the analysis performed, VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were either undetected or were detected at concentrations below applicable screening guidelines. A total of eight parameters were detected above applicable groundwater screening guidelines. A summary of the exceedances of groundwater screening guidelines is provided in the tables below:

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	75	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	**5.7**	<D.L.	<D.L.	**5.07**	<D.L.	**4.74**	<D.L.	<D.L.	<D.L.	**5.98**	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	**11**	9.1	8.9	8.9	7.0	5.7	5.3	8	<D.L.	<D.L.	8.9	9.7
					May-11	<D.L.	3	13.5	15.9	11	10.5	9.27	7.43	10.2	7.16	3.8	8.35	8.34	7.83
Iron	1000	**300**	2560	---	Jan-10	**320**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	56	25	230	<D.L.	<D.L.	<D.L.
					May-11	52.8	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Manganese	200	**50**	876	---	Jan-10	**420**	**430**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	0.91	1.0	1.6	0.92	1.3	1.2
					May-11	**82.9**	**50.1**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	Jan-10	**3,300**	---	59	---	20	---	19	---	13	---	51	---	20	---
					May-11	**3,310**	---	68	---	18	---	22	---	21	---	59	---	29	---
Sulfate	600	**250**	---	---	Jan-10	**1,400**	---	140	---	66	---	92	---	72	---	160	---	96	---
					May-11	**1,350**	---	150	---	59	---	91	---	86	---	156	---	61	---
TDS	1,000	**500**	---	---	Jan-10	**6,800**	---	470	---	380	---	420	---	360	---	**540**	---	380	---
					May-11	**7,120**	---	430	---	300	---	374	---	352	---	480	---	390	---

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	<D.L.	<D.L.	**3200**	<D.L.	64	<D.L.	38	<D.L.	**2500**	<D.L.	**560**	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	**153.0**	<D.L.	72.4	<D.L.	**261**	<D.L.	**1100**	**272**	<D.L.	<D.L.	**69.7**	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**20.3**	**6**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	9.4	4.7	6.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.800	<D.L.
					May-11	<D.L.	3.99	6.33	7.34	<D.L.	3.75	<D.L.	3.95	6.1	9.41	<D.L.	<D.L.	5.89	3.95
Iron	1000	**300**	2560	---	Jan-10	<D.L.	<D.L.	**1900**	<D.L.	**2300**	<D.L.	63	<D.L.	**1400**	<D.L.	**850**	<D.L.	**1100**	<D.L.
					May-11	<D.L.	<D.L.	168	<D.L.	**2820**	**2590**	241	71.1	**669**	127	147	142	**7450**	**566**
Manganese	200	**50**	876	---	Jan-10	0.75	<D.L.	40	1.3	**450**	**450**	**770**	**760**	37	2.6	**150**	**150**	**180**	**160**
					May-11	**13.8**	<D.L.	5.27	9.28	**436**	**432**	**967**	**934**	19.9	<D.L.	**426**	**440**	**265**	**158**
Chloride	**250**	250	---	---	Jan-10	**630**	---	35	---	**1,800**	---	**5,500**	---	120	---	**770**	---	100	---
					May-11	**715**	---	40		**2,050**	---	**6,010**	---	121	---	**342**	---	107	---
Sulfate	600	**250**	---	---	Jan-10	**950**	---	110	---	**1,500**	---	**1,600**	---	**570**	---	**420**	---	130	---
					May-11	**994**	---	110		**1,530**	---	**1,630**	---	**476**	---	233	---	216	---
TDS	1,000	**500**	---	---	Jan-10	**2,500**	---	460	---	**5,100**	---	**10,000**	---	**1,300**	---	**1,800**	---	470	---
					May-11	**2,670**	---	**520**	---	**5,500**	---	**11,900**	---	**900**	---	**936**	---	**658**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

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6.0 SUMMARY

Based on the information and data collected during the 2011 Groundwater Quality sampling events, the following conclusions were reached:

- Based on TRINITYs review of the historical and recent 2011 groundwater analytical data, groundwater beneath Melrose AFR does not appear to be impacted by potential contaminants or activities associated with the SWMUs or activities associated with the Impact Area.

- All analytical data for the 2011 sampling events were evaluated by eDATApro. Level III Data Validation was performed by eDATApro according to guidance from *USEPA; Contract Laboratory Program, National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA; Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). Based on data validation of the 2011 sampling events, the data was determined to be valid and achieved data completeness.

- All accessible network wells were re-surveyed on December 4, 2012 to provide comprehensive elevation and location information. The results and details of the survey will be submitted to Cannon AFB under separate cover for submittal to NMED. Since TRINITY had the new survey data available prior to finalizing this *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY included new top of casing elevations, well locations, etc., in associated tables, and re-created all appropriate figures that utilize this information.

- With regards to the background well, TRINITY had proposed to NMED, and subsequently sampled well MWQ-23, to determine if this location was a viable option as a background well for the collection of groundwater samples. Based on review of the collected groundwater quality information from MWQ-23, it is TRINITYs opinion that this does not represent an ideal background water quality sampling location. In addition, no well construction details are known about this well. Based on the previously approved work plan (Tidewater, Inc., 2010) and recent direction by NMED, TRINITY will propose

a new background monitoring well, upgradient of the SWMUs adjacent to MWQ-10 in a separate Well Installation Work Plan.

- A background monitoring well was initially requested on October 27, 2009 when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009). In that response NMED stated:

  > "*NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
  >
  > *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…*"

  TRINITY therefore proposes to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the groundwater sampling network. A proposal to remove MWQ-10 from the network will be deferred until installation of the new background well has been completed.

- Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10 and water-level only wells MWL-1, MWL-2, and MWL-3 and MWQ-23 contain pumps, integral plumbing, and in most cases live electrical wires. Therefore, water levels are not routinely taken due to the electrical shock hazard and high likelihood of the water level tape becoming entangled in the wiring. Additionally, water-level only wells MWL-2 and MWL-3 are located adjacent to the Jockey Live Fire Range. Due to their locations near the Range, TRINITY has only gained access to MWL-2 once, and has never inspected or collected water levels from MWL-3 due to missions. TRINITY proposes to remove MWQ-3, MWQ-5, MWQ-6, MWQ-7, MWQ-10, MWL-1, MWL-2, MWL-3 and MWQ-23 from the water-level only network.

- Limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala

Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells (MWQ-2, MWQ-19, MWQ-20, and MWQ-22) are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available, this has not been entirely confirmed. TRINITY proposes utilizing a downhole camera to determine screened intervals for all exiting monitoring wells. TRINITY has previously performed gamma and induction resistivity logs for monitoring wells MWQ-2, MWQ-20, and MWQ-22. Comparison of the boring log (Langman, 2004) and the gamma and induction resistivity logs for MWQ-2l, allows for the determination of the contact between the Ogallala Formation and the Chinle Formation. This could be used as a baseline to infer the same contact at other well locations based solely on gamma and induction resistivity logs for other wells. TRINITY therefore proposes collecting gamma and induction resistivity logs for all existing monitoring wells at Melrose AFR in addition to performing downhole camera work. Utilizing the collected data along with regional lithologic information, the target formation of the wells should be detectable.

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- Perchlorate was reported present in only one monitoring well during the 2011 sampling period, at a concentration slightly exceeding the screening criteria. However, perchlorate has been detected at low concentrations throughout the monitoring network. The results of a recent study of wells located throughout the High Plains of Texas and New Mexico indicate that perchlorate may be naturally occurring and strongly indicates a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No apparent trend exists at this time but will be monitored over time.

- To comply with the approved work plan (Tidewater, Inc., 2010) it is necessary to analyze a split sample of perchlorate by EPA Method 6860, but there are very few laboratories in the US that provide this method. In 2011, TRINITY utilized a laboratory for analyzing the split sample using EPA Method 6850, which generally has a slightly higher MDL (0.2 µL vs 0.1 µL), but is considered the "industry standard" for now. TRINITY is proposing

to implement EPA Method 6850 for perchlorate analysis at Melrose AFR.

- To comply with the approved work plan (Tidewater, Inc., 2010), it is necessary to analyze hexavalent chromium by colorimetric method, EPA Method 7196A. This method does not typically allow for preservative; therefore, there is a 24-hour hold time. Due to the remoteness of the range, location of appropriately certified laboratories, etc., it is not possible to collect, pack, and ship samples from Melrose AFR and NOT exceed the 24-hour hold time. The hold time for hexavalent chromium is routinely exceeded; however, Level III Data Validation was performed by eDATApro according to guidance from *USEPA; Contract Laboratory Program, National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA; Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review* (USEPA, 2004) and the data was determined to be valid. However, to avoid exceeding the hold time specified by EPA Method 7196A, TRINITY proposes utilizing alternative method EPA 218.6. The currently approved method has a method detection limit of 3.3 ug/L. The proposed method has a method detection limit as low as 0.005 ug/L (EPA, 2013).

- During the Fall 2011 sampling event, thallium was analyzed utilizing a MDL slightly higher than the screening guideline. The Tapwater Screening Level is 2 ug/L and the MDL was 2.6 ug/L. Future testing will attempt to utilize a lower MDL. To comply with the approved work plan (Tidewater, Inc., 2010) it is necessary to analyze metals by method 6010C. However, to achieve a lower MDL for thallium, TRINITY proposes utilizing alternative method EPA Method 6020A.

- "Low-flow" sampling techniques were previously proposed for several wells within the Annual Groundwater Quality Network that are used for cattle stock water supply and are installed within subsurface vaults. Upon further evaluation of the well construction details it has been determined that it is not possible to adjust the flow rate at the well head. Therefore, it was necessary to sample these wells by first evacuating a well volume and then collecting stabilization parameters. These wells included MWQ-3, MWQ-5, MWQ-6, MWQ-7, MWQ-10, and MWQ-23. Limited to no well construction

information is available for these wells. Additionally, NMED discourages sampling of these wells. Therefore, TRINITY has proposed above that these wells be removed from the sampling network.

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TABLES

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TABLE 1
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

		Well No.	Common/Alternate Name	Location (State Plane)[1]		Top of Casing[1]	Installation Date	Well Type	Top of Screen	Screen Length	Total Well Depth	Well I.D.	Well Material	Pump	Aquifer Monitored	Status	Bollards	Bollard Condition	Protective Casing	Cap Type	Notes
				Easting (ft)	Northing (ft)	ft NAVD			ft bls	feet	ft bls	inches									
Semiannual-SWMU GW Quality Well Network	Water Quality	M114MW001	---	706827.67	1203539.67	4327.21	11-13-1995	MW	UNK	UNK	182.0	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW002	---	706680.51	1203596.93	4328.11	11-13-1995	MW	UNK	UNK	183.3	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW003	---	706662.3	1203400.5	4329.62	11-13-1995	MW	UNK	UNK	184.4	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW004	MWQ-16	706963.35	1203578.69	4324.99	11-06-1995	MW	UNK	UNK	184	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW001	---	702193.7	1205363.35	4344.68	10-17-1995	MW	UNK	UNK	162.4	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW002	---	702321.76	1205536.48	4343.58	10-18-1995	MW	UNK	UNK	157.0	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW003	MWQ-17	702047.46	1205516.57	4345.33	10-17-1995	MW	UNK	UNK	161.6	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW004	---	702257.89	1205963.87	4342.91	10-25-1995	MW	UNK	UNK	162.30	4.0	PVC	none	Ogallala	Active	3	1 Knocked Over	Steel w/locking lid	Slip Cap	---
		MAO2MW001D	MWQ-15	706656.33	1199306.69	4355.90	UNK	MW	UNK	UNK	184.5	4.0	PVC	none	Ogallala	Active	4	Good	Steel w/locking lid	Slip Cap	---
		MWQ-23	---	689359.4	1196710.8	4498.4	UNK	Supply	UNK	UNK	UNK	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	---
Annual - Ground Water Quality Well Network	Water Quality	MWQ-2	---	720370.93	1196505.43	4293.72	UNK	MW	UNK	UNK	241	4.0	PVC	none	Chinle	Active	4	Good	Steel w/ locking lid	J-Plug	---
		MWQ-3	Ashley Pump	720584.37	1202483.91	4270.78	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Unable to collect water levels due to electrical wires.
		MWQ-4	Solar Pump	718665.24	1224301.96	4202.69	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	None	Slip Cap	Solar powered stock pond well.
		MWQ-5	Telephone Pole	707559.27	1216915.19	4234.22	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Inactive	0	NA	Steel. Not accessible	Bolted	Old center pivot well. Unable to collect water levels.
		MWQ-6	Homestead	694796.1	1217958.83	4273.00	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Unable to collect water levels due to electrical wires.
		MWQ-7	Grider at Gate	688613.19	1218117.07	4262.68	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Old center Pivot well. Plug rusted in-place.
		MWQ-10	Luce Jog	689875.24	1180475.78	4642.32	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	USGS previously lost water level tape in this well
		MWQ-14	EOD Pit	706871.58	1193064.56	4382.11	UNK	MW	UNK	UNK	124.9	4.0	PVC	UNK	Ogallala	Active	3	Good	Steel w/ locking lid	Slip Cap	
		MWQ-18	---	694417.52	1215441.23	4290.17	UNK	MW	UNK	UNK	152	4.0	PVC	none	Ogallala	Active	4	Knocked Over	Steel w/ locking lid	Slip Cap	Nested with MWQ-19
		MWQ-19	---	694417.52	1215441	4290.13	UNK	MW	UNK	UNK	230	4.0	PVC	none	Ogallala	Active					Nested with MWQ-18
		MWQ-20	---	694399.63	1215417.04	4290.26	UNK	MW	UNK	UNK	299.1	4.0	PVC	none	Chinle	Active	4	Knocked Over	Steel w/ locking lid	J-Plug	---
		MWQ-21	---	720195.67	1217791.91	4209.26	UNK	MW	UNK	UNK	66.3	4.0	PVC	none	Ogallala	Active	4	Good	Steel w/ locking lid	J-Plug	Nested with MWQ-22
		MWQ-22	---	720195.9	1217791.8	4209.1	UNK	MW	UNK	UNK	154.7	4.0	PVC	none	Chinle	Active					Nested with MWQ-21
		MWL-6	Brackish Mill	697695.65	1212918.66	4304.8	UNK	Supply	UNK	UNK	136	6.0	Steel	none	Ogallala	Inactive	4	NA	None	Slip Cap	Old windmill; redeveloped May 2011
	Water Level	MWQ-1	---	720367.74	1196501.97	4293.60	UNK	MW	UNK	UNK	136.5	4.0	PVC	none	Ogallala	Active	0	NA	Steel w/ locking lid	J-Plug	Dry
		MWQ-8	Below Golf Ball	692464.5	1197219.55	4469.71	UNK	Supply	UNK	UNK	117	4.0	Steel	none	Ogallala	Inactive	0	NA	Concrete	None	Old windmill.
		MWQ 9	Hand Dug	696653.6	1186441.0	4490.6	UNK	Supply	UNK	UNK	UNK	~4 ft	none	none	Ogallala	Inactive	0	NA	None	Cap	Eroded hand dug well.
		MWQ-11	Parker House	693783.8	1175090.6	4666.1	UNK	Supply	UNK	UNK	UNK	6.0	Steel	DSP	Ogallala	Active	0	UNK	None	Bolted	---
		MWQ-12	Eroded Tank	712235.1	1172236.0	4405.8	UNK	Supply	UNK	UNK	UNK	6.0	UNK	UNK	Ogallala	UNK	0	UNK	None	Slip Cap	---
		MWQ-13	Hidden Mill	736665.3	1180908.5	4280.5	UNK	Supply	UNK	UNK	UNK	6.0	UNK	UNK	Ogallala	UNK	0	UNK	None	Cap	---
		MWQ-15	MAO2MW001D	MWQ-15 designation was used by USGS (2004). This is the same well identified as MA02MW001D.																	
		MWQ-16	M114MW004	MWQ-16 designation was used by USGS (2004) This is the same well identified as SWMU114MW004.																	
		MWQ-17	MAO1MW003	MWQ-17 designation was used by USGS (2004). This is the same well identified as MA01MW003.																	
		MWL-1	Mini-mute East	738425.62	1196901.96	4226.02	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	---
		MWL-2	NE100 Mill	715905.5	1201457.72	4291.95	UNK	Supply	UNK	UNK	NA	UNK	UNK	UNK	Ogallala	UNK	UNK	NA	UNK	UNK	Located in Impact Area. No access.
		MWL-3	Luce NW	714515.51	1213337.34	4226.98	UNK	Supply	UNK	UNK	NA	UNK	UNK	UNK	Ogallala	UNK	UNK	NA	UNK	UNK	Located in Impact Area. No access.
		MWL-4	Firebreak Fence	715033.16	1218237.91	4220.77	UNK	Supply	UNK	UNK	59.8	4.0	Steel	none	Ogallala	Inactive	0	NA	None	none	Cattle hair & feces in well
		MWL-5	Glass Log PVC	714597.21	1224854.49	4196.32	UNK	Supply	UNK	UNK	35.0	6.0	PVC	none	Ogallala	Inactive	0	NA	None	none	PVC stickup with no protection
		MWL-7	Fence Line Dip	702121.36	1216423.71	4258.43	UNK	Supply	UNK	UNK	108.90	6.0	Steel	none	Ogallala	Inactive	0	NA	None	Steel Slip Cap	Old windmill
		MWL-8	Davis Trap Mill	697907.88	1218188.04	4262.06	UNK	Supply	UNK	UNK	114	6.0	Steel	DSP	Ogallala	Inactive	0	NA	None	Pump	Cattle hair & feces in well
		MWL-9	Northern End	701865.19	1225896.35	4241.74	UNK	Supply	UNK	UNK	49.6	6.0	Steel	none	Ogallala	Inactive	0	NA	None	none	Old windmill
		MWL-10	Three Mills	689066.6	1187189.7	4573.5	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	Jack Pump	Old windmill
		MWL-11	Luce 480 Mill	684248.9	1169768.4	4579.8	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	Jack Pump	---
		MWL-12	County Road	707038.7	1169558.1	4446.9	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	UNK	---
Abandoned		M117MW001	---	707165.34	1197940.69	4359.75	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW002	---	707316.92	1197989.26	4357.67	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW003	---	707217.53	1198339.13	4355.55	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW004	---	707317.84	1198489.29	4353.88	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		MAO2MW001S	---	706662.83	1199311.35	4355.78	12-01-1995	MW	UNK	UNK	49.55	4.0	PVC	none	Ogallala	Aban.	4	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		MAO3MW001	---	707170.57	1199036.28	4350.11	12-01-1995	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	0	NA	Flush Mount	J-Plug	Abandoned 10-5-2011

[1] Abandoned wells and MWL-3 were previously surveyed by Lydick, Inc., a professional surveyor licensed in the State of New Mexico, on January 14-16, 2009 as part of the initial annual groundwater sampling program. All other wells were more recently surveyed or resurveyed by Lydick, Inc. between December 4, 2012 and January 2, 2013.
Land surveying was completed using the New Mexico East State Plane North American Datum (NAD) 83 and North American Vertical Datum (NAVD) 88 (adjusted) in decimal feet. All horizontal coordinates were measured to the nearest fiftieth of a foot. All vertical coordinates were measured to the nearest tenth of a foot.
Wells in gray scale are not sampled as part of the Annual or Semiannual Ground Water Quality Network. These wells are utilized for ground water levels or have been abandoned.
DSP = dedicated submersible pump; MW = monitoring well; NA = not applicable; UNK=unknown

TABLE 2
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

WELL ID	TOC [3] (ft NAVD)	SCREENED INTERVAL (ft BTOC)	DEPTH TO WATER (ft BTOC)									
			1/1/2003 [1]	1/12/2004	7/19/2004	7/18/2005	6/18/2007	1/14/2009	1/26/2010	10/24/2010	5/3/2011	9/26/2011
M114MW001	4,327.21	UNK	ND	ND	ND	ND	ND	150.07	150.30	150.87	151.03	151.71
M114MW002	4,328.11	UNK	ND	ND	ND	ND	ND	150.56	150.45	150.60	150.74	151.05
M114MW003	4,329.62	UNK	ND	ND	ND	ND	ND	151.70	151.60	151.95	151.77	151.99
M114MW004 (MWQ-16)	4,324.99	UNK	148.78	149.50	148.62	148.73	148.48	149.15	149.00	149.09	149.54	150.04
M117MW001	4,359.75	UNK	ND	ND	ND	ND	ND	42.71	42.65	ND	abandoned	abandoned
M117MW002	4,357.67	UNK	ND	ND	ND	ND	ND	40.68	41.65	ND	abandoned	abandoned
M117MW003	4,355.55	UNK	ND	ND	ND	ND	ND	42.47	42.60	ND	abandoned	abandoned
M117MW004	4,353.88	UNK	ND	ND	ND	ND	ND	Dry	Dry	ND	abandoned	abandoned
MAO1MW001	4,344.68	UNK	ND	ND	ND	ND	ND	143.49	143.20	143.42	142.58	142.87
MAO1MW002	4,343.58	UNK	ND	ND	ND	ND	ND	142.65	142.40	142.75	142.44	142.49
MAO1MW003 (MWQ-17)	4,345.33	UNK	144.11	144.83	ND	ND	ND	144.20	143.90	144.03	143.43	143.72
MAO1MW004	4,342.91	UNK	ND	ND	ND	ND	ND	142.92	142.85	143.13	142.78	143.11
MAO2MW001D (MWQ-15)	4,355.90	UNK	105.20	105.62	105.28	100.66	103.83	105.53	105.72	106.29	104.56	105.63
MAO2MW001S	4,355.78	UNK	ND	ND	ND	ND	ND	Dry	Dry	Dry	abandoned	abandoned
MAO3MW001	4,350.11	UNK	ND	ND	ND	ND	ND	42.00	ND	ND	abandoned	abandoned
MWQ-1	4,293.60	UNK	ND	ND	ND	ND	ND	Dry	ND	Dry	Dry	Dry
MWQ-2	4,293.72	UNK	122.68	122.41	122.26	122.14	122.07	122.05	122.03	121.96	121.96	121.98
MWQ-3	4,270.78	UNK	124.04	128.31	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-4	4,202.69	UNK	23.10	ND	ND	ND	39.85	ND	ND	41.78	25.09	26.12
MWQ-5	4,234.22	UNK	56.32	56.07	55.66	ND	56.33	ND	ND	ND	ND	ND
MWQ-6	4,273.00	UNK	84.88	ND	ND	ND	84.51	ND	ND	ND	ND	ND
MWQ-7	4,262.68	UNK	68.61	68.92	68.99	70.28	ND	ND	ND	ND	ND	ND
MWQ-8	4,469.71	UNK	109.43	ND	ND	110.39	109.59	Dry	Dry	111.10	108.96	110.42
MWQ-9	4,490.64	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-10	4,642.32	UNK	46.83	46.63	ND	41.33	ND	ND	ND	ND	ND	ND
MWQ-11	4,666.10	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-12	4,405.77	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.08
MWQ-13	4,280.51	UNK	ND	ND	ND	ND	ND	ND	ND	ND	151.83	151.41
MWQ-14	4,382.11	UNK	65.87	66.97	66.19	65.79	65.54	65.81	65.50	ND	ND	65.66
MWQ-18	4,290.17	UNK	ND	ND	ND	ND	100.50	101.33	124.75	101.29	101.19	101.46
MWQ-19	4,290.13	UNK	ND	ND	ND	ND	ND	101.05	100.80	102.82	99.41	ND
MWQ-20	4,290.26	UNK	ND	ND	ND	ND	83.15	83.33	106.75	83.30	83.28	83.58
MWQ-21	4,209.26	UNK	ND	ND	ND	ND	42.82	44.75	45.08	45.20	45.24	45.36
MWQ-22	4,209.12	UNK	ND	ND	ND	ND	40.02	41.90	65.88	42.34	42.41	42.49
MWQ-23	4,498.43	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWL-1	4,226.02	UNK	112.01	110.89	110.90	110.88	112.30	114.00	ND	130.90 [2]	131.50 [2]	ND
MWL-2	4,291.95	UNK	128.23	128.16	128.22	ND	128.37	ND	ND	ND	128.37	ND
MWL-3	4,226.98	UNK	57.98	58.45	58.47	ND	58.77	59.90	ND	ND	ND	ND
MWL-4	4,220.77	UNK	49.88	49.83	49.85	49.89	49.99	50.00	ND	50.51	50.60	50.78
MWL-5	4,196.32	UNK	12.42	ND	ND	ND	11.85	12.21	ND	13.50	12.68	14.08
MWL-6	4,304.80	UNK	116.61	116.94	117.03	117.24	117.37	118.42	118.60	118.60	118.59	118.68
MWL-7	4,258.43	UNK	74.30	74.69	74.75	74.79	74.89	74.75	ND	75.00	75.03	75.14
MWL-8	4,262.06	UNK	74.06	74.65	74.65	74.24	74.15	73.88	ND	74.10	ND	74.23
MWL-9	4,241.74	UNK	43.81	ND	ND	ND	ND	44.70	ND	45.10	45.19	45.29
MWL-10	4,573.45	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWL-11	4,579.80	UNK	ND	ND	ND	ND	ND	ND	ND	ND	58.79	58.64
MWL-12	4,446.85	UNK	ND	ND	ND	ND	ND	ND	ND	ND	51.78	37.18

[1] The January 2003 ground water flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).
[2] Pump running during measurement of water level
[3] Survey conducted by Lydick Engineers & Surveyors, Inc. December 2012. Abandoned wells and MWQ-3 were not resurveyed.

ND	No Data
NSD	No Survey Data
UNK	Unknown
4,165.24	Data is considered anamolous due to its departure from the norm. Data is not included in plots.

TABLE 2
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Well ID	TOC [3] (ft NAVD)	SCREENED INTERVAL (ft NAVD)	WATER LEVEL (ft NAVD)									
			1/1/2003 [1]	1/12/2004	7/19/2004	7/18/2005	6/18/2007	1/14/2009	1/26/2010	10/24/2010	5/3/2011	9/26/2011
M114MW001	4,327.21	TBD	ND	ND	ND	ND	ND	4,177.14	4,176.91	4,176.34	4,176.18	4,175.50
M114MW002	4,328.11	TBD	ND	ND	ND	ND	ND	4,177.55	4,177.66	4,177.51	4,177.37	4,177.06
M114MW003	4,329.62	TBD	ND	ND	ND	ND	ND	4,177.92	4,178.02	4,177.67	4,177.85	4,177.63
M114MW004 (MWQ-16)	4,324.99	TBD	4,176.21	4,175.49	4,176.37	4,176.26	4,176.51	4,175.84	4,175.99	4,175.90	4,175.45	4,174.95
M117MW001	4,359.75	TBD	ND	ND	ND	ND	ND	4,317.04	4,317.10	ND	abandoned	abandoned
M117MW002	4,357.67	TBD	ND	ND	ND	ND	ND	4,316.99	4,316.02	ND	abandoned	abandoned
M117MW003	4,355.55	TBD	ND	ND	ND	ND	ND	4,313.08	4,312.95	ND	abandoned	abandoned
M117MW004	4,353.88	TBD	ND	ND	ND	ND	ND	Dry	Dry	ND	abandoned	abandoned
MAO1MW001	4,344.68	TBD	ND	ND	ND	ND	ND	4,201.19	4,201.48	4,201.26	4,202.10	4,201.81
MAO1MW002	4,343.58	TBD	ND	ND	ND	ND	ND	4,200.93	4,201.18	4,200.83	4,201.14	4,201.09
MAO1MW003 (MWQ-17)	4,345.33	TBD	4,201.22	4,200.50	ND	ND	ND	4,201.13	4,201.43	4,201.30	4,201.90	4,201.61
MAO1MW004	4,342.91	TBD	ND	ND	ND	ND	ND	4,199.99	4,200.06	4,199.78	4,200.13	4,199.80
MAO2MW001D (MWQ-15)	4,355.90	TBD	4,250.70	4,250.28	4,250.62	4,255.24	4,252.07	4,250.37	4,250.18	4,249.61	4,251.34	4,250.27
MAO2MW001S	4,355.78	TBD	ND	ND	ND	ND	ND	Dry	Dry	Dry	abandoned	abandoned
MAO3MW001	4,350.11	TBD	ND	ND	ND	ND	ND	4,308.11	ND	ND	abandoned	abandoned
MWQ-1	4,293.60	TBD	ND	ND	ND	ND	ND	Dry	ND	Dry	Dry	Dry
MWQ-2	4,293.72	TBD	4,171.04	4,171.31	4,171.46	4,171.58	4,171.65	4,171.67	4,171.69	4,171.76	4,171.76	4,171.74
MWQ-3	4,270.78	UNK	4,146.74	4,142.47	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-4	4,202.69	UNK	4,179.59	ND	ND	ND	4,162.84	ND	ND	4,160.91	4,177.60	4,176.57
MWQ-5	4,234.22	UNK	4,177.90	4,178.15	4,178.56	ND	4,177.89	ND	ND	ND	ND	ND
MWQ-6	4,273.00	UNK	4,188.12	ND	ND	ND	4,188.49	ND	ND	ND	ND	ND
MWQ-7	4,262.68	UNK	4,194.07	4,193.76	4,193.69	4,192.40	ND	ND	ND	ND	ND	ND
MWQ-8	4,469.71	UNK	4,360.28	ND	ND	4,359.32	4,360.12	Dry	Dry	4,358.61	4,360.75	4,359.29
MWQ-9	4,490.64	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-10	4,642.32	UNK	4,595.49	4,595.69	ND	4,600.99	ND	ND	ND	ND	ND	ND
MWQ-11	4,666.10	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWQ-12	4,405.77	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,353.69
MWQ-13	4,280.51	UNK	ND	ND	ND	ND	ND	ND	ND	ND	4,128.68	4,129.10
MWQ-14	4,382.11	UNK	4,316.24	4,315.14	4,315.92	4,316.32	4,316.57	4,316.30	4,316.61	ND	ND	4,316.45
MWQ-18	4,290.17	TBD	ND	ND	ND	ND	4,189.67	4,188.84	4,165.42	4,188.88	4,188.98	4,188.71
MWQ-19	4,290.13	TBD	ND	ND	ND	ND	ND	4,189.08	4,189.33	4,187.31	4,190.72	ND
MWQ-20	4,290.26	TBD	ND	ND	ND	ND	4,207.11	4,206.93	4,183.51	4,206.96	4,206.98	4,206.68
MWQ-21	4,209.26	TBD	ND	ND	ND	ND	4,166.44	4,164.51	4,164.18	4,164.06	4,164.02	4,163.90
MWQ-22	4,209.12	TBD	ND	ND	ND	ND	4,169.10	4,167.22	4,143.24	4,166.78	4,166.71	4,166.63
MWQ-23	4,498.43	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWL-1	4,226.02	UNK	4,114.01	4,115.13	4,115.12	4,115.14	4,113.72	4,112.02	ND	4,095.12	4,094.52	ND
MWL-2	4,291.95	UNK	4,163.72	4,163.79	4,163.73	ND	4,163.58	ND	ND	ND	4,163.58	ND
MWL-3	4,226.98	UNK	4,169.00	4,168.53	4,168.51	ND	4,168.21	4,167.08	ND	ND	ND	ND
MWL-4	4,220.77	UNK	4,170.89	4,170.94	4,170.92	4,170.88	4,170.78	4,170.77	ND	4,170.26	4,170.17	4,169.99
MWL-5	4,196.32	UNK	4,183.90	ND	ND	ND	4,184.47	4,184.11	ND	4,182.82	4,183.64	4,182.24
MWL-6	4,304.80	UNK	4,188.19	4,187.86	4,187.77	4,187.56	4,187.43	4,186.38	4,186.20	4,186.20	4,186.21	4,186.12
MWL-7	4,258.43	UNK	4,184.13	4,183.74	4,183.68	4,183.64	4,183.54	4,183.68	ND	4,183.43	4,183.40	4,183.29
MWL-8	4,262.06	UNK	4,188.00	4,187.41	4,187.41	4,187.82	4,187.91	4,188.18	ND	4,187.96	ND	4,187.83
MWL-9	4,241.74	UNK	4,197.93	ND	ND	ND	ND	4,197.04	ND	4,196.64	4,196.55	4,196.45
MWL-10	4,573.45	UNK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWL-11	4,579.80	UNK	ND	ND	ND	ND	ND	ND	ND	ND	4,521.01	4,521.16
MWL-12	4,446.85	UNK	ND	ND	ND	ND	ND	ND	ND	ND	4,395.07	4,409.67

[1] The January 2003 ground water flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).
[2] Pump running during measurement of water level
[3] Survey conducted by Lydick Engineers & Surveyors, Inc. December 2012. Abandoned wells and MWQ-3 were not resurveyed.

ND	No Data
NSD	No Survey Data
UNK	Unknown
4,165.24	Data is considered anamolous due to its departure from the norm. Data is not included in plots.

TABLE 2
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

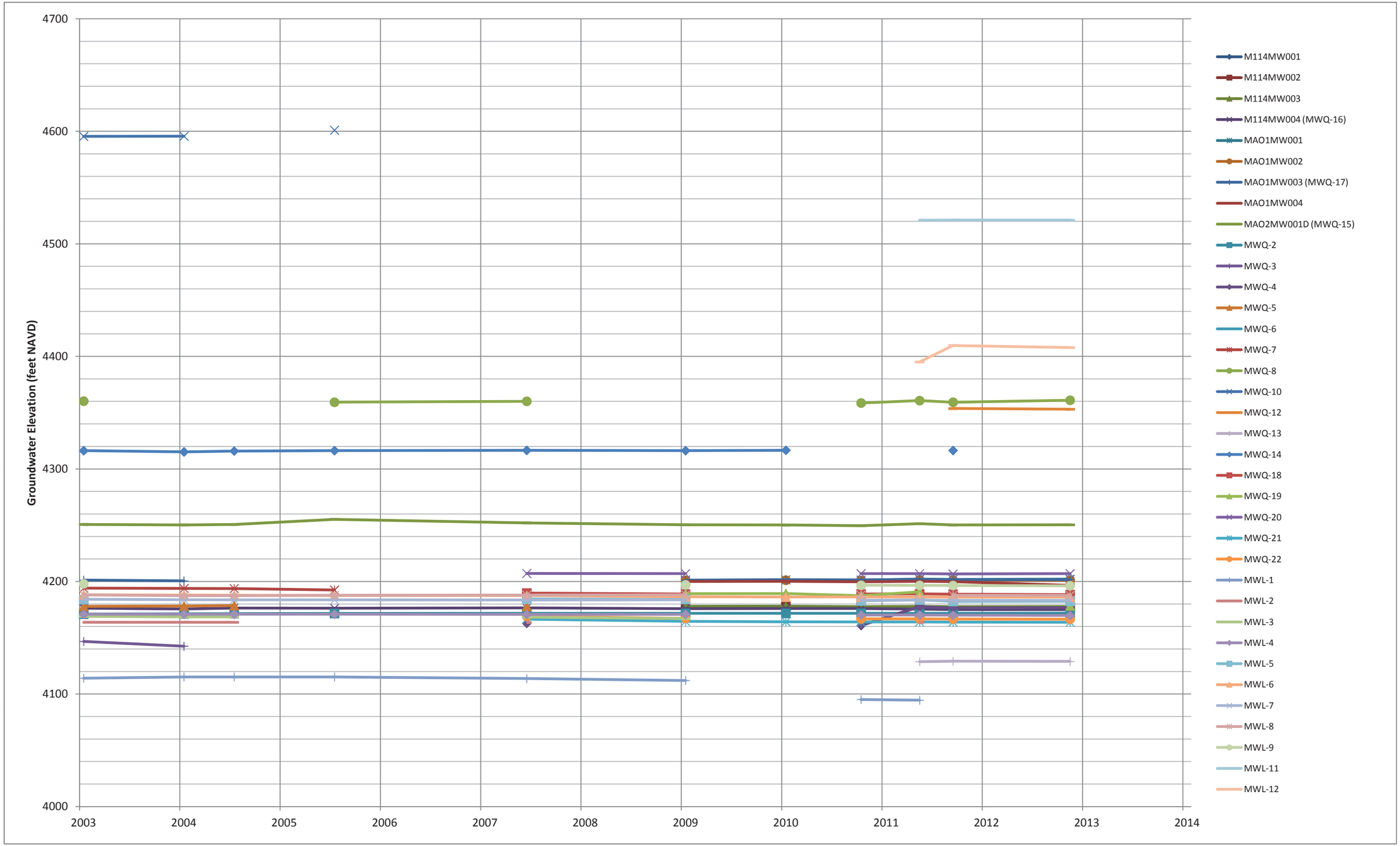


TABLE 2
SUMMARY OF GROUNDWATER ELEVATION AND DEPTH TO GROUNDWATER DATA

TABLE 2
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

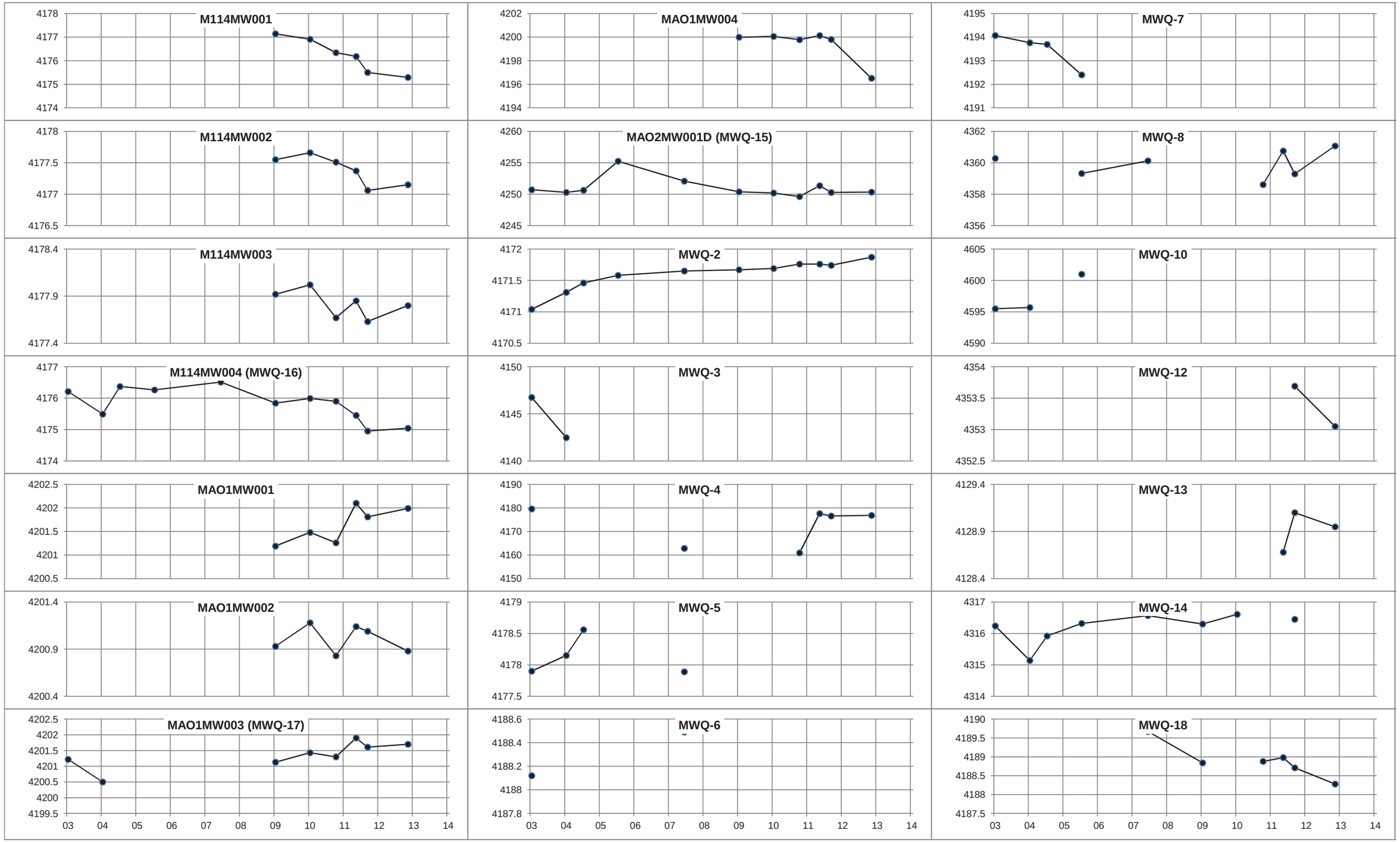
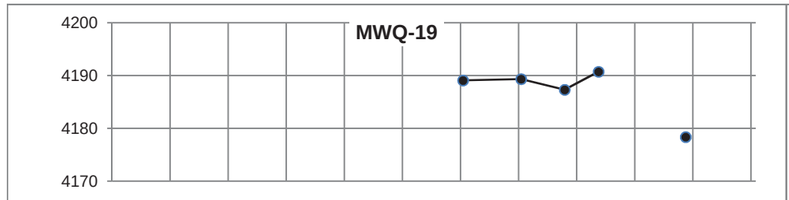
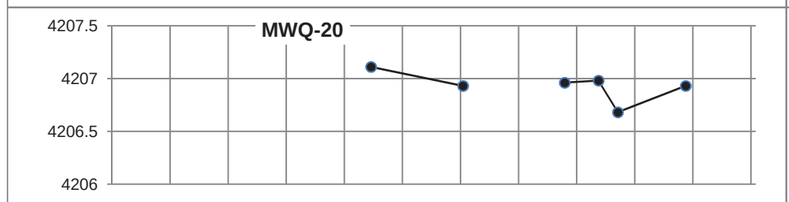
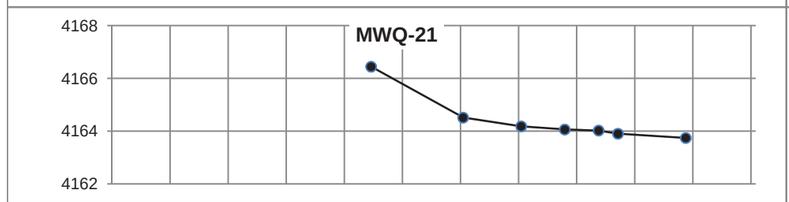


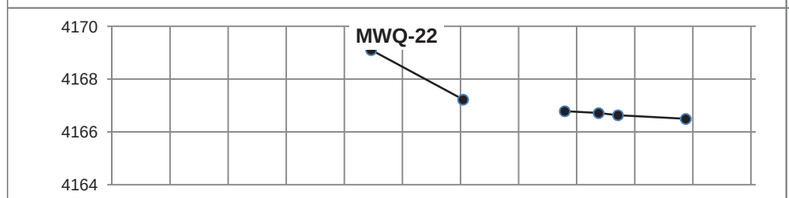
TABLE 2
SUMMARY OF GROUNDWATER ELEVATION AND DEPTH TO GROUNDWATER DATA

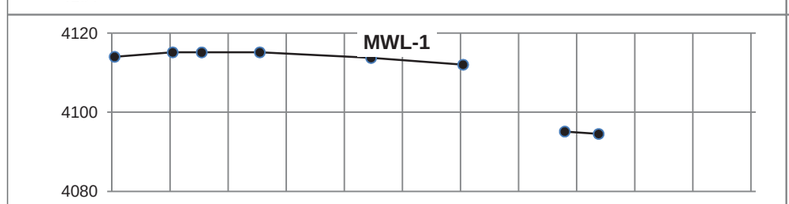
TABLE 2
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

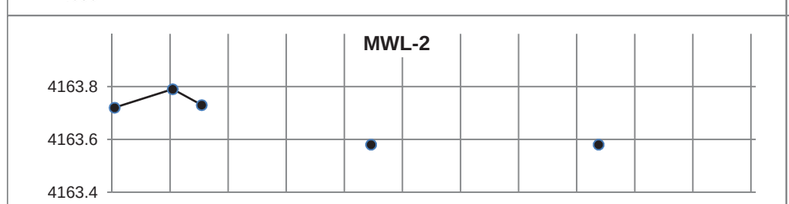


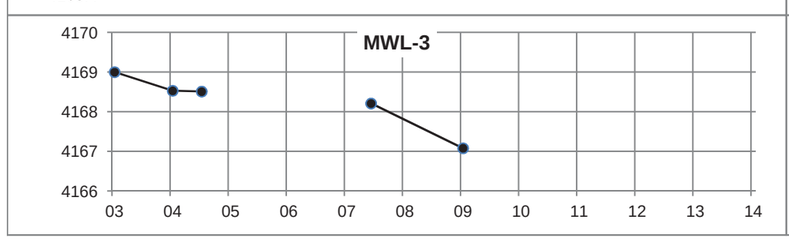


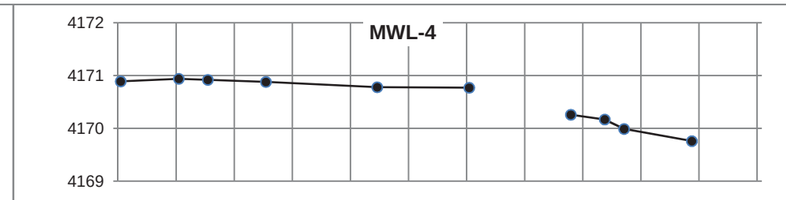


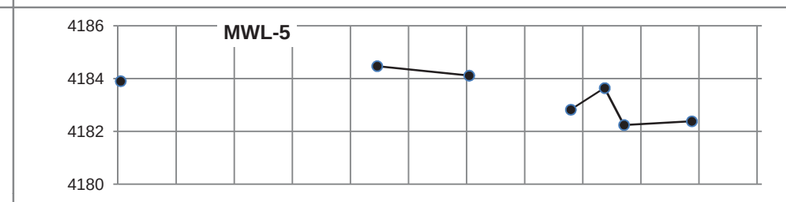


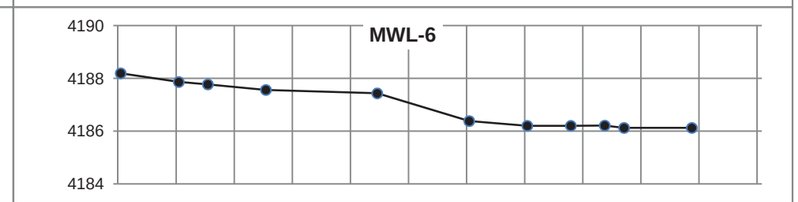


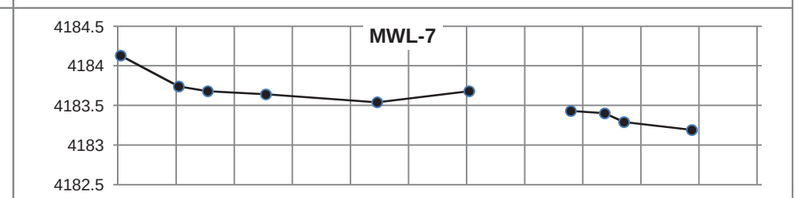


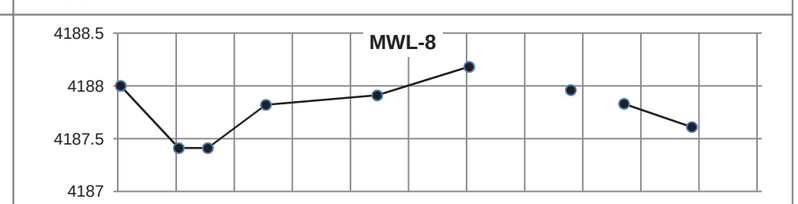


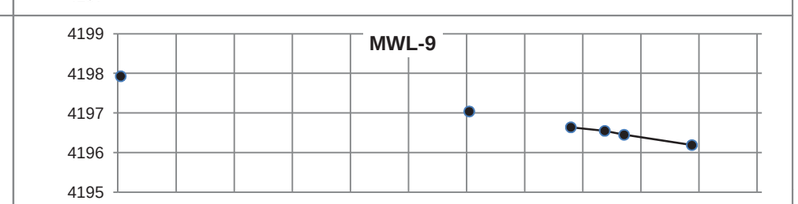


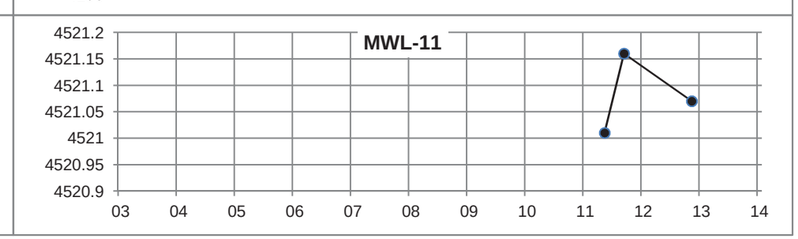












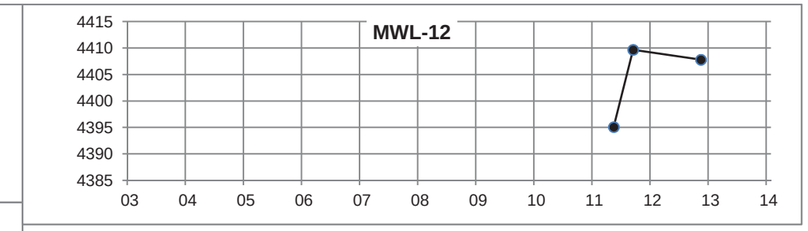


TABLE 3a
MELROSE AIR FORCE RANGE
ROOSEVELY AND CURRY COUNTIES, NEW MEXICO

							Semiannual																	
	Test Site ID						M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
LAB INFO	Lab Sample No.						21105060815		21105060805		21105060807		21105060802		21105060810		21105170901		21105060819		21105060818		21105060801		21105170902	
	Sample Date						5/9/2011		5/6/2011		5/6/2011		5/5/2011		5/9/2011		5/16/2011		5/10/2011		5/10/2011		5/5/2011		5/16/2011	
	Sample Time						9:55:00 AM		11:35:00 AM		2:30:00 PM		3:16:00 PM		2:16:00 PM		9:35:00 AM		1:20:00 PM		11:11:00 AM		12:23:00 PM		11:10:00 AM	
	Parameter	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
FIELD	Dissolved oxygen	mg/L	---	---	---	---	3.02		3.44		2.57		3.03		5.98		4.77		5.66		7.1		0.16		0.12	
	ORP	mV	---	---	---	---	12.5		54.4		163.6		211.1		34.5		-1.5		81.9		54.7		-11.8		-22.3	
	pH	SU	6 to 9	6.5-8.5	---	---	7.73		7.52		7.62		7.95		7.73		8.07		7.09		7.08		7.92		7.88	
	Specific Conductance	umhos/cm	---	---	---	---	12.3		13.05		15.8		14.2		3.387		3.174		2.741		1.834		10.6		2.442	
	Temperature	deg C	---	---	---	---	23.56		22.4		21.67		22.51		22.95		21.94		22.69		21.43		19.88		19.45	
	Turbidity	NTU	---	---	---	---	3.4		9.96		14.2		3.03		10.1		1.13		2.21		4.82		4.8		0.99	
	Water Level	ft btoc	---	---	---	---	151.03		150.74		151.77		149.54		142.58		142.49		143.43		142.78		104.56		NM	

							Annual																									
	Test Site ID						MWL-6		MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22	
LAB INFO	Lab Sample No.						21105190401		21105042611		21105042601		21105042602		21105042603		21105042605		21105042606		21105042607		21105042616		21105042615		21105042614		21105042620		21105042613		21105042612	
	Sample Date						5/18/2011		5/5/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/13/2011		5/12/2011		5/12/2011		5/17/2011		5/11/2011		5/11/2011	
	Sample Time						2:30:00 PM		9:26:00 AM		9:15:00 AM		10:18:00 AM		11:57:00 AM		1:12:00 PM		1:53:00 PM		3:23:00 PM		12:31:00 PM		12:40:00 PM		9:50:00 AM		1:22:00 PM		1:05:00 PM		11:01:00 AM	
	Parameter	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
FIELD	Dissolved oxygen	mg/L	---	---	---	---	3.48		0.39		6.23		5.89		5.71		5.83		6.60		6.65		3.81		5.96		0.08		0.08		0.17		0.07	
	ORP	mV	---	---	---	---	-18.5		-27.2		-20.9		20.0		0.70		-9.5		-4.7		-4.9		25.0		81.4		-160.1		0.4		-24.0		-39.5	
	pH	SU	6 to 9	6.5-8.5	---	---	7.5		7.79		7.48		7.16		7.22		7.25		7.22		7.03		7.94		7.44		8.27		7.79		7.83		7.14	
	Specific Conductance	umhos/cm	---	---	---	---	9.811		12.67		0.979		0.702		0.793		0.726		0.971		0.846		4.197		0.763		7.353		17.17		17.06		1.809	
	Temperature	deg C	---	---	---	---	21.53		19.63		18.42		16.17		17.56		18.05		18.41		18.05		19.18		21.25		18.06		19.31		22.93		18.14	
	Turbidity	NTU	---	---	---	---	25.7		2.02		0.17		0.26		0.20		0.27		0.17		1.32		2.29		2.50		6.46		8.71		12.40		0.87	
	Water Level	ft btoc	---	---	---	---	118.59		121.96		NM		42.94		NM		NM		NM		NM		66.40		101.19		99.41		45.29		83.28		42.41	

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue LA; Sampling performed by Trinity Analysis & Development Corp.
NM= not measured
--- = no standard

TABLE 3a
SUMMARY OF RECENT (SPRING 2011) FIELD MEASUREMENTS OF WATER QUALITY

TABLE 3b
MELROSE AIR FORCE RANGE
ROOSEVELY AND CURRY COUNTIES, NEW MEXICO

							Semiannual																	
	Test Site ID						M114MW001		M114MW002		M114MW003		M114MW004		MA01MW001		MA01MW002		MA01MW003		MA01-MW004		MA02 MW001D		MWQ-23	
LAB INFO	Lab Sample No.						21110010502		21110010505		21110010506		21110010501		21109280401		21109280412		21109280402		21109280411		21109280407		21109280410	
	Sample Date						9/30/2011		10/3/2011		10/3/2011		9/30/2011		9/27/2011		9/29/2011		9/27/2011		9/29/2011		9/28/2011		9/29/2011	
	Sample Time						12:36		09:32		11:46		10:00		09:33		13:06		12:21		11:10		10:28		08:40	
	Parameter	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
FIELD PARAMETERS	Dissolved oxygen	mg/L	---	---	---	---	4.19		4		2.22		1.57		6.15		5.86		5.67		6.51		0.29		0.23	
	ORP	mV	---	---	---	---	47.7		44.8		56.6		63.3		53.9		52.1		73.3		83.7		27.1		-64.1	
	pH	SU	6 to 9	6.5-8.5	---	---	8.11		7.98		8.13		8.04		8.11		8.33		8.07		8.11		8.01		8.3	
	Specific Conductance	umhos/cm	---	---	---	---	10.95		10.53		12.88		12.61		2.9		2.57		2.65		1.68		8.99		1.87	
	Temperature	deg C	---	---	---	---	23.03		21.64		22.06		21.61		20.91		22.58		23.27		21.76		20.92		19.97	
	Turbidity	NTU	---	---	---	---	5.10		8.06		23.50		8.05		6.02		4.25		1.39		2.22		2.96		2.13	
	Water Level	ft btoc	---	---	---	---	151.71		151.05		151.99		150.04		142.87		142.49		143.72		143.11		105.63		NM	

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.
NM = not measured
--- = no standard

TABLE 3b
SUMMARY OF RECENT (FALL 2011) FIELD MEASUREMENTS OF WATER QUALITY

TABLE 4a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network									
	SWMU 114				SWMU 130				SWMU 131	
	M114MW001	M114MW002	M114MW003	M114MW004	MAO1MW001	MAO1MW002	MAO1MW003	MAO1MW004	MAO2MW001D	MWQ-23
Jan-04										
Jul-04										
Jul-05										
Jun-07										
Jan-09	13.910	13.350	14.130	13.830	3.561	3.082	3.124	1.966	10.510	
Jan-10	13.0	13.2	16.2	14.9	3.84	3.21	3.43	2.10	9.15	
Oct-10	11.25	10.16	13.16	12.63	2.9	2.51	2.53	1.75	7.06	
May-11	12.30	13.05	15.8	14.2	3.387	3.174	2.741	1.834	10.60	2.442
Sep-11	10.95	10.53	12.88	12.61	2.90	2.57	2.65	1.681	8.99	1.87
Min	11.0	10.2	12.9	12.6	2.9	2.5	2.5	1.7	7.1	1.9
Max	13.9	13.4	16.2	14.9	3.8	3.2	3.4	2.1	10.6	2.4
Average	12.3	12.1	14.4	13.6	3.3	2.9	2.9	1.9	9.3	2.2

Notes:

Data in mS/cm

NMAC WQCC Groundwater Limit: n/a

USEPA Drinking Water MCL: n/a

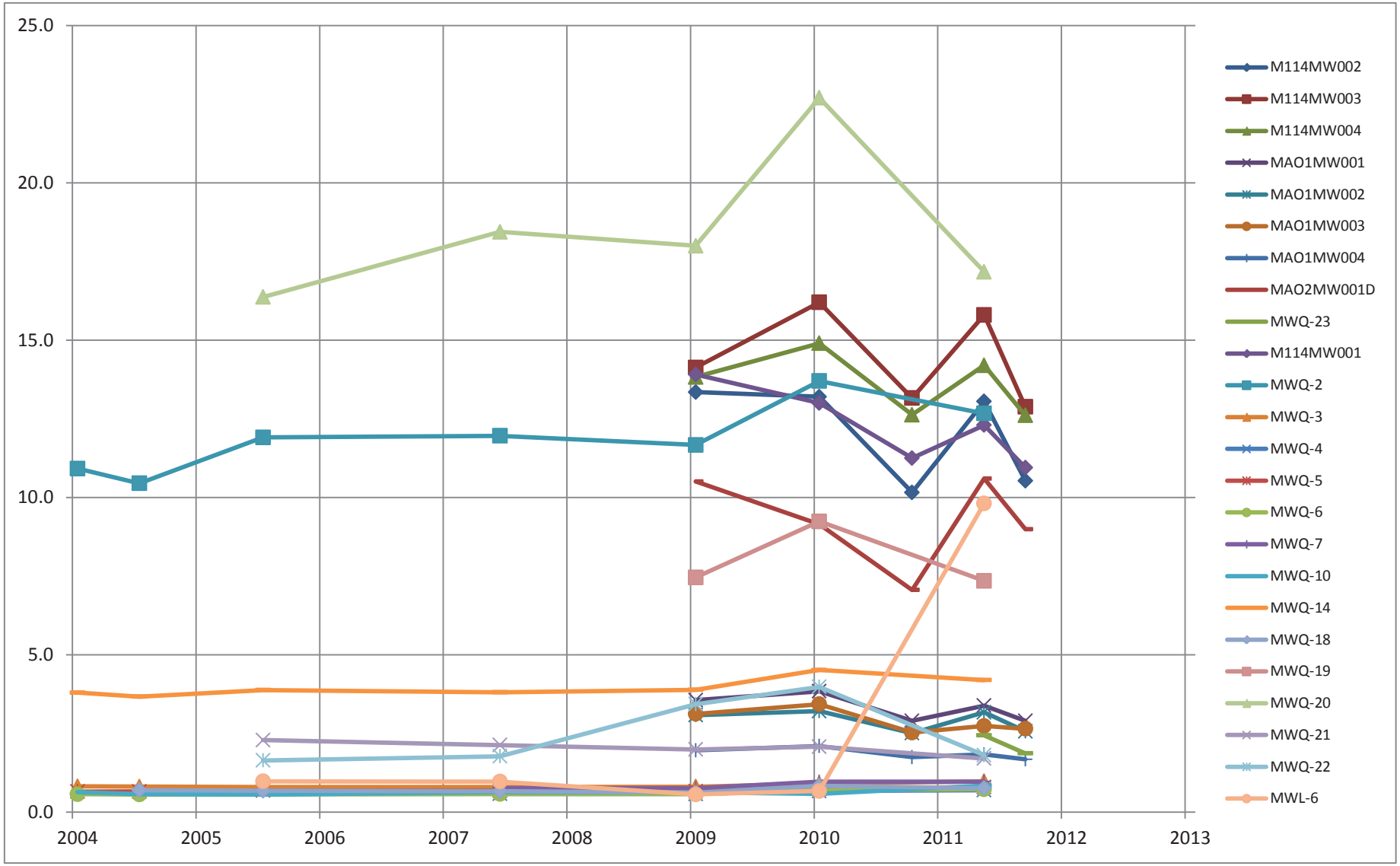
NMED SSL Tapwater Screening Level: n/a

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network													
						Background	Background							
	MWQ-2	MWQ-3	MWQ-4	MWQ-5	MWQ-6	MWQ-7	MWQ-10	MWQ-14	MWQ-18	MWQ-19	MWQ-20	MWQ-21	MWQ-22	MWL-6
Jan-04	10.92	0.819		0.654	0.572		0.636	3.80						
Jul-04	10.45	0.812		0.656	0.560		0.574	3.67	0.699					
Jul-05	11.91	0.8		0.683			0.558	3.880	0.681		16.370	2.290	1.646	0.979
Jun-07	11.960	0.796	0.584	0.679	0.578	0.769	0.639	3.810	0.667		18.440	2.130	1.777	0.971
Jan-09	11.670	0.807	0.580	0.665	0.576	0.764	0.631	3.890	0.618	7.459	18.000	1.991	3.431	0.566
Jan-10	13.7	0.910	0.674	0.766	0.697	0.969	0.579	4.52	0.836	9.24	22.7	2.08	3.980	0.672
Oct-10														
May-11	12.67	0.979	0.702	0.793	0.726	0.971	0.846	4.197	0.763	7.353	17.17	1.706	1.809	9.811
Sep-11														
Min	10.5	0.8	0.6	0.7	0.6	0.8	0.6	3.7	0.6	7.4	16.4	1.7	1.6	0.6
Max	13.7	1.0	0.7	0.8	0.7	1.0	0.8	4.5	0.8	9.2	22.7	2.3	4.0	9.8
Average	11.9	0.8	0.6	0.7	0.6	0.87	0.64	4.0	0.7	8.0	18.5	2.0	2.5	2.6

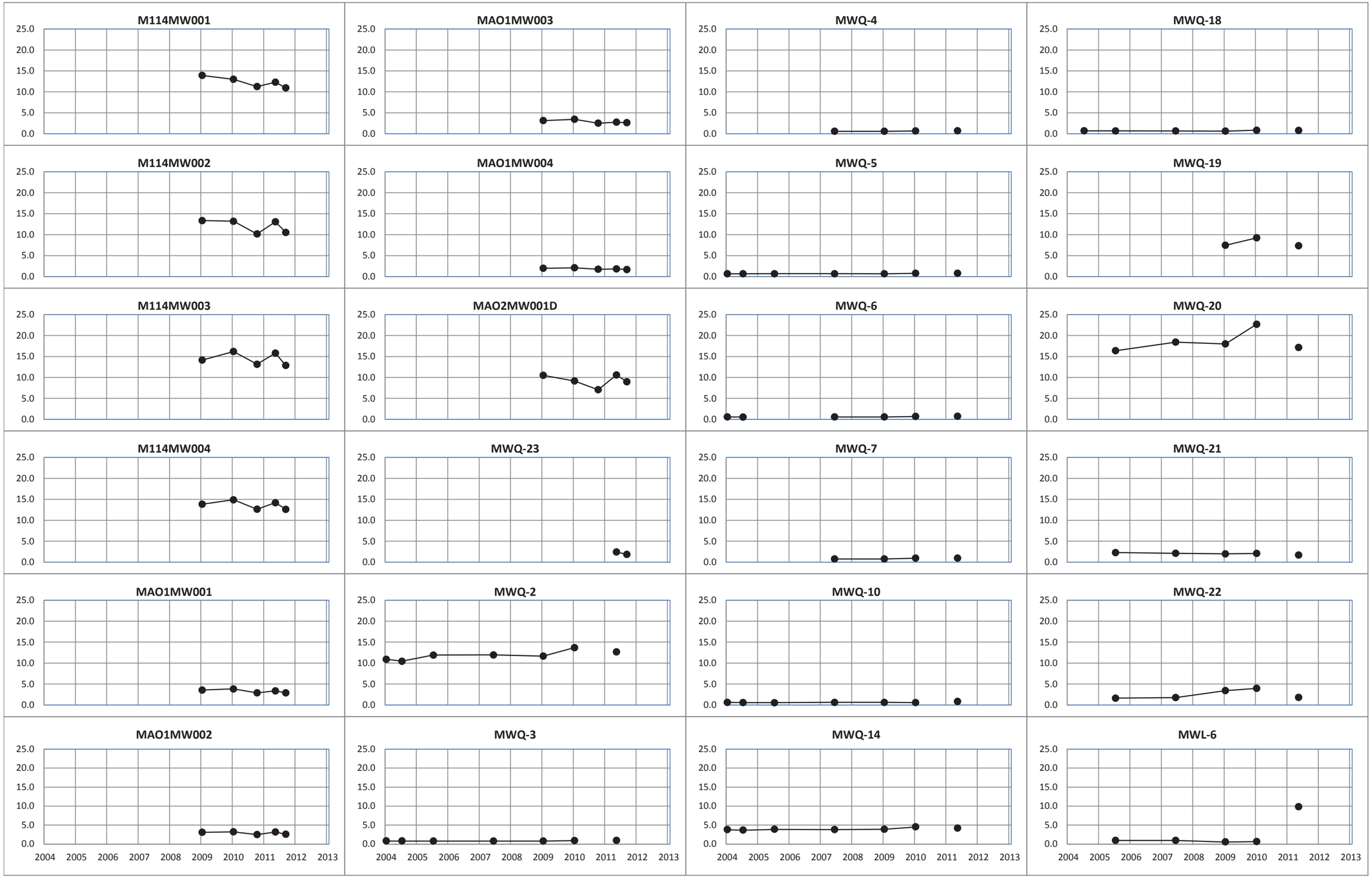
TABLE 4a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mS/cm

TABLE 4a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mS/cm

TABLE 4a
SPECIFIC CONDUCTANCE

TABLE 4b
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network									
	SWMU 114				SWMU 130				SWMU 131	
	M114MW001	M114MW002	M114MW003	M114MW004	MAO1MW001	MAO1MW002	MAO1MW003	MAO1MW004	MAO2MW001D	MWQ-23
Jan-04										
Jul-04										
Jul-05										
Jun-07										
Jan-09	0.37	0.40	2.57	0.43	4.56	2.46	4.06	6.49	0.35	
Jan-10	8.18	8.81	5.47	7.98	7.38	9.59	10.23	9.39	2.28	
Oct-10	0.86	5.13	3.37	1.60	7.08	5.43	7.43	8.31	0.57	
May-11	3.02	3.44	2.57	3.03	5.98	4.77	5.66	7.1	0.16	0.12
Sep-11	4.19	4	2.22	1.57	6.15	5.86	5.67	6.51	0.29	0.23
Min	0.37	0.40	2.22	0.43	4.56	2.46	4.06	6.49	0.16	0.12
Max	8.18	8.81	5.47	7.98	7.38	9.59	10.23	9.39	2.28	0.23
Average	3.32	4.36	3.24	2.92	6.23	5.62	6.61	7.56	0.73	0.18

Notes:

Data in mg/L

NMAC WQCC Groundwater Limit: n/a

USEPA Drinking Water MCL: n/a

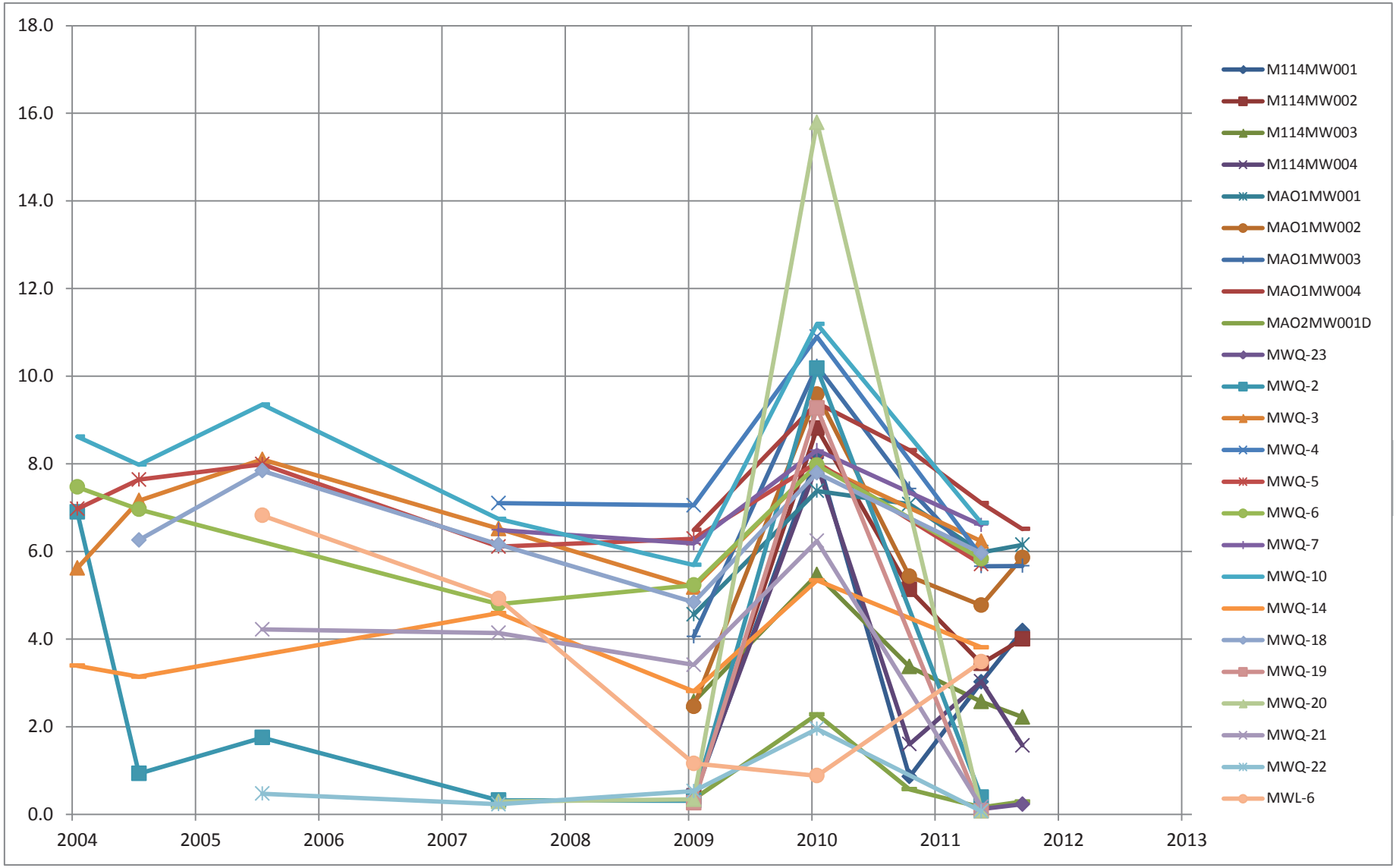
NMED SSL Tapwater Screening Level: n/a

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network													
						Background	Background							
	MWQ-2	MWQ-3	MWQ-4	MWQ-5	MWQ-6	MWQ-7	MWQ-10	MWQ-14	MWQ-18	MWQ-19	MWQ-20	MWQ-21	MWQ-22	MWL-6
Jan-04	6.90	5.62		6.97	7.47		8.62	3.39						
Jul-04	0.93	7.16		7.64	6.96		7.98	3.14	6.26					
Jul-05	1.75	8.10		7.99			9.35		7.84			4.22	0.47	6.82
Jun-07	0.32	6.52	7.10	6.11	4.80	6.49	6.74	4.59	6.16		0.29	4.14	0.23	4.92
Jan-09	0.31	5.18	7.05	6.29	5.23	6.18	5.69	2.81	4.84	0.26	0.34	3.41	0.53	1.16
Jan-10	10.18	7.97	10.90	8.03	7.97	8.31	11.19	5.34	7.79	9.27	15.79	6.24	1.95	0.88
Oct-10														
May-11	0.39	6.23	5.89	5.71	5.83	6.6	6.65	3.81	5.96	0.08	0.08	0.17	0.07	3.48
Sep-11														
Min	0.31	5.18	5.89	5.71	4.80	6.18	5.69	2.81	4.84	0.08	0.08	0.17	0.07	0.88
Max	10.18	8.10	10.90	8.03	7.97	8.31	11.19	5.34	7.84	9.27	15.79	6.24	1.95	6.82
Average	2.97	6.68	7.74	6.96	6.38	6.90	8.03	3.85	6.48	3.20	4.13	3.64	0.65	3.45

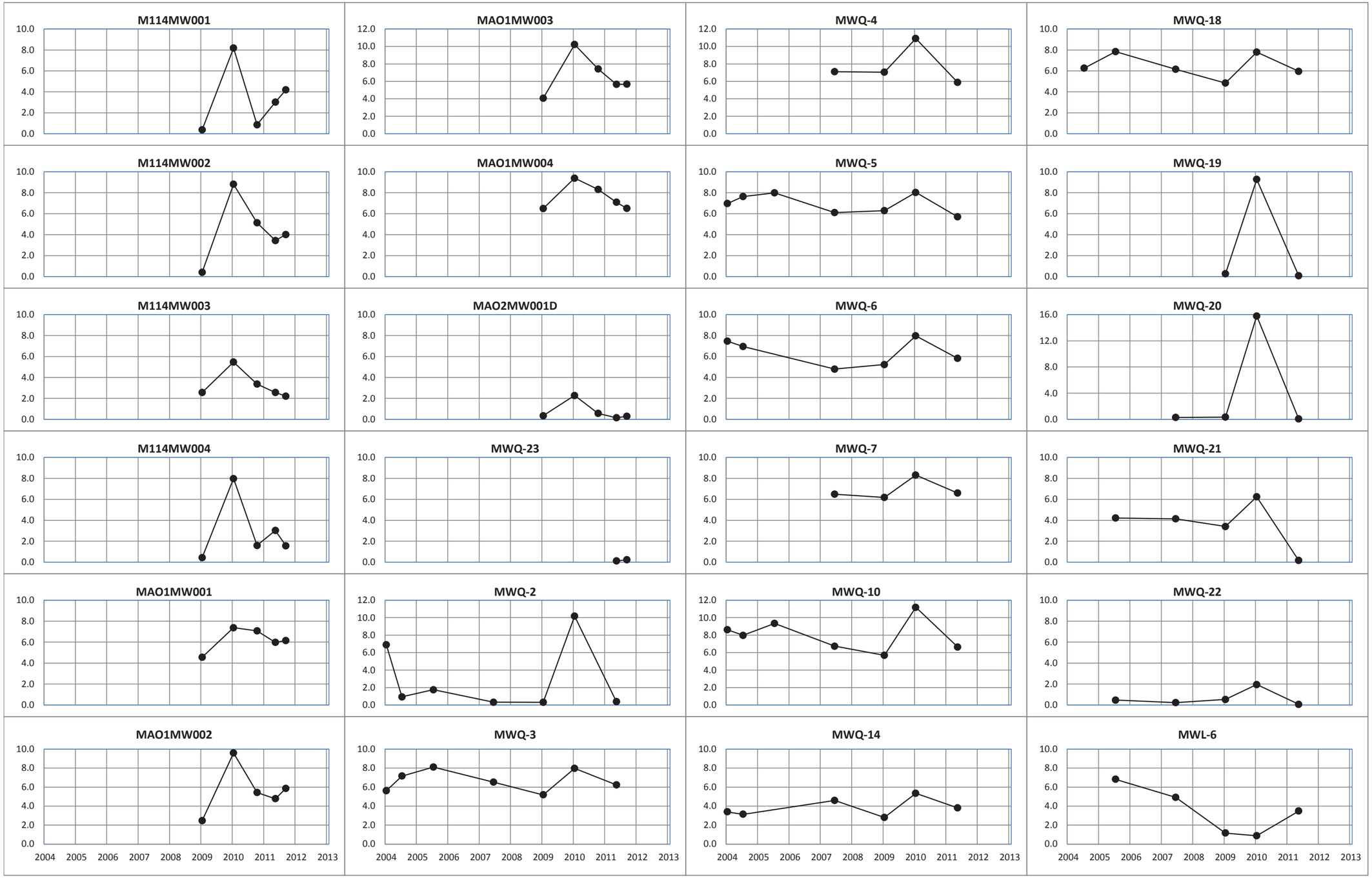
TABLE 4b
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mg/L

TABLE 4b
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mg/L

TABLE 4c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network									
	SWMU 114				SWMU 130				SWMU 131	
	M114MW001	M114MW002	M114MW003	M114MW004	MAO1MW001	MAO1MW002	MAO1MW003	MAO1MW004	MAO2MW001D	MWQ-23
Jan-04										
Jul-04										
Jul-05										
Jun-07										
Jan-09	7.80	7.80	7.92	7.70	7.81	7.99	7.81	7.87	7.72	
Jan-10	5.64	5.58	5.65	5.58	5.61	8.92	8.36	8.32	8.12	
Oct-10	7.48	7.71	7.47	7.63	7.79	7.83	7.64	7.59	7.43	
May-11	7.73	7.52	7.62	7.95	7.73	8.07	7.09	7.08	7.92	7.88
Sep-11	8.11	7.98	8.13	8.04	8.11	8.33	8.07	8.11	8.01	8.3
Min	5.64	5.58	5.65	5.58	5.61	7.83	7.09	7.08	7.43	7.88
Max	8.11	7.98	8.13	8.04	8.11	8.92	8.36	8.32	8.12	8.30
Average	7.35	7.32	7.36	7.38	7.41	8.23	7.79	7.79	7.84	8.09

Notes:

Data in std units

NMAC WQCC Groundwater Limit: 6-9

USEPA Drinking Water MCL: 6.5-8.5

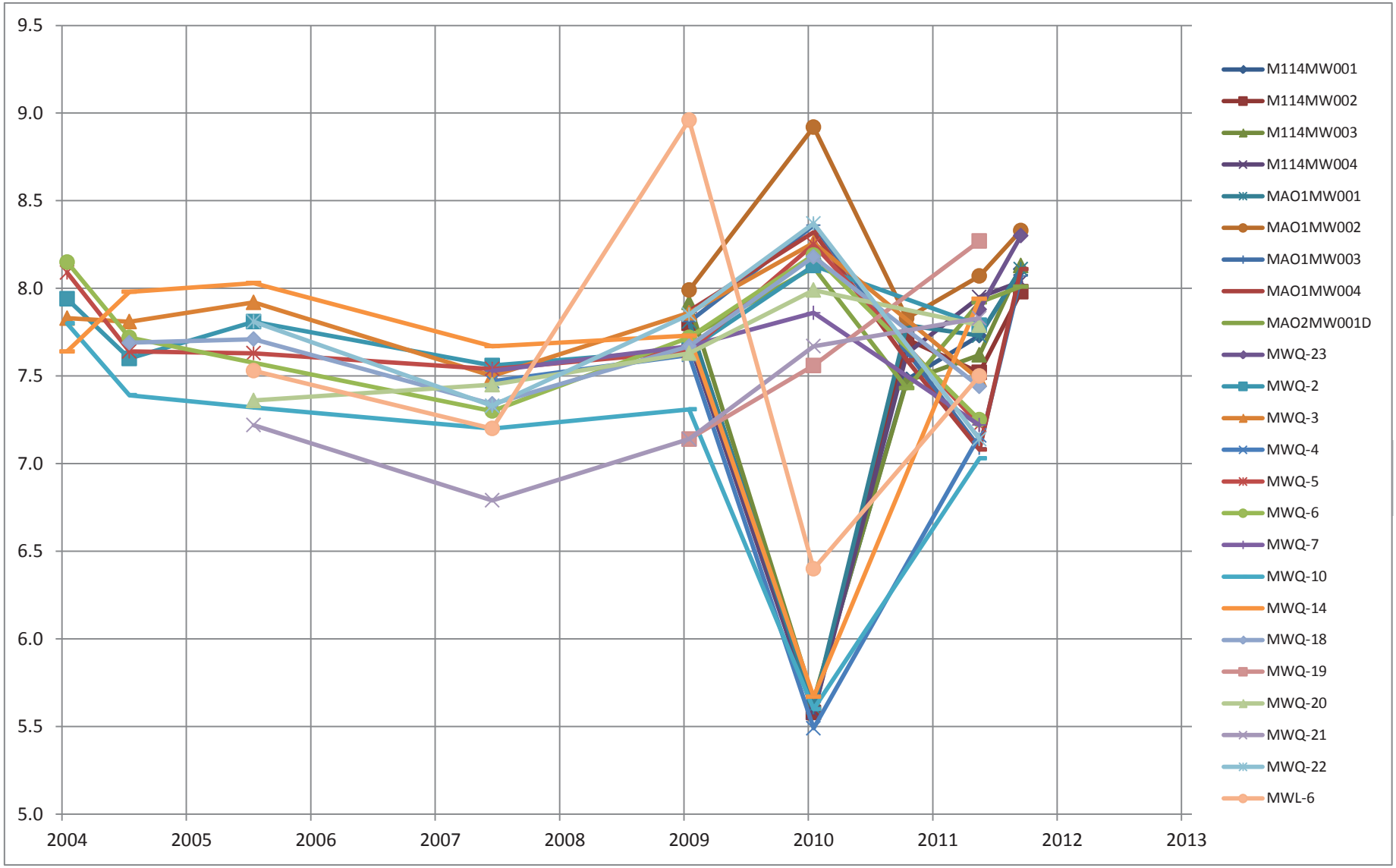
NMED SSL Tapwater Screening Level: n/a

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network													
						Background	Background							
	MWQ-2	MWQ-3	MWQ-4	MWQ-5	MWQ-6	MWQ-7	MWQ-10	MWQ-14	MWQ-18	MWQ-19	MWQ-20	MWQ-21	MWQ-22	MWL-6
Jan-04	7.94	7.83		8.09	8.15		7.80	7.64						
Jul-04	7.60	7.81		7.64	7.72		7.39	7.98	7.69					
Jul-05	7.81	7.92		7.63			7.32	8.03	7.71		7.360	7.22	7.81	7.53
Jun-07	7.56	7.50	7.47	7.54	7.30	7.53	7.20	7.67	7.34		7.45	6.79	7.33	7.20
Jan-09	7.65	7.86	7.62	7.64	7.72	7.67	7.31	7.73	7.67	7.14	7.63	7.14	7.85	8.96
Jan-10	8.13	8.26	5.49	8.25	8.19	7.86	5.60	5.67	8.18	7.56	7.99	7.67	8.37	6.40
Oct-10														
May-11	7.79	7.48	7.16	7.22	7.25	7.22	7.03	7.94	7.44	8.27	7.79	7.83	7.14	7.5
Sep-11														
Min	7.56	7.48	5.49	7.22	7.25	7.22	5.60	5.67	7.34	7.14	7.36	6.79	7.14	6.40
Max	8.13	8.26	7.62	8.25	8.19	7.86	7.80	8.03	8.18	8.27	7.99	7.83	8.37	8.96
Average	7.78	7.81	6.94	7.72	7.72	7.57	7.09	7.52	7.67	7.66	7.64	7.33	7.70	7.52

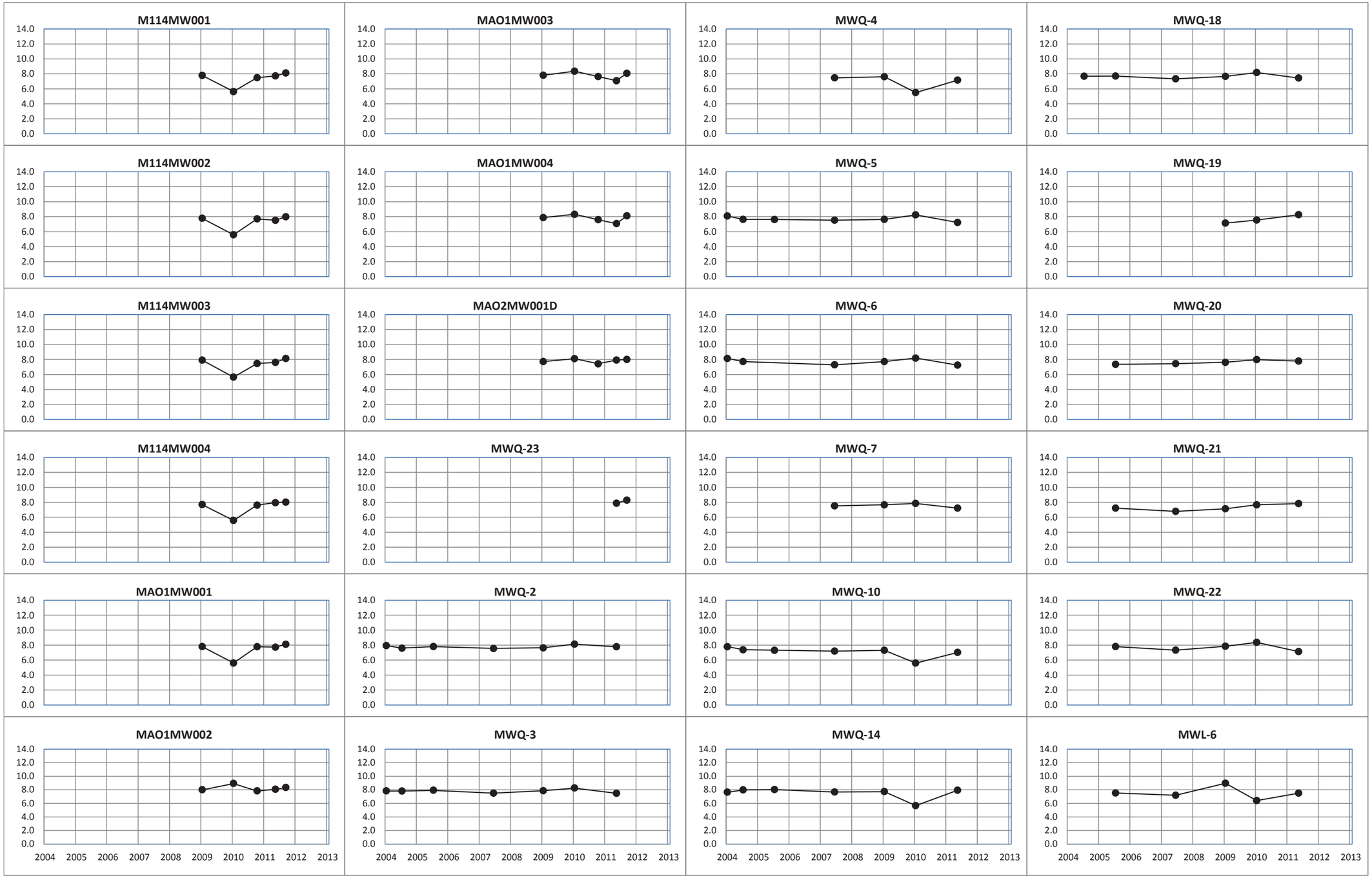
TABLE 4c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in std units

TABLE 4c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mS/cm

TABLE 4d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network									
	SWMU 114				SWMU 130				SWMU 131	
	M114MW001	M114MW002	M114MW003	M114MW004	MAO1MW001	MAO1MW002	MAO1MW003	MAO1MW004	MAO2MW001D	MWQ-23
Jan-04										
Jul-04										
Jul-05										
Jun-07										
Jan-09	16.19	15.29	16.44	12.15	17.03	17.60	17.67	17.06	16.52	
Jan-10	17.90	18.00	16.40	17.40	17.30	15.72	16.71	15.66	14.77	
Oct-10	19.77	18.5	20.72	18.51	20.4	20.88	20.98	19.71	20.19	
May-11	23.56	22.4	21.67	22.51	22.95	21.94	22.69	21.43	19.88	19.45
Sep-11	23.03	21.64	22.06	21.61	20.91	22.58	23.27	21.76	20.92	19.97
Min	16.19	15.29	16.40	12.15	17.03	15.72	16.71	15.66	14.77	
Max	23.56	22.40	22.06	22.51	22.95	22.58	23.27	21.76	20.92	
Average	20.09	19.17	19.46	18.44	19.72	19.74	20.26	19.12	18.46	

Notes:

Data in degrees Celsius

NMAC WQCC Groundwater Limit: n/a

USEPA Drinking Water MCL: n/a

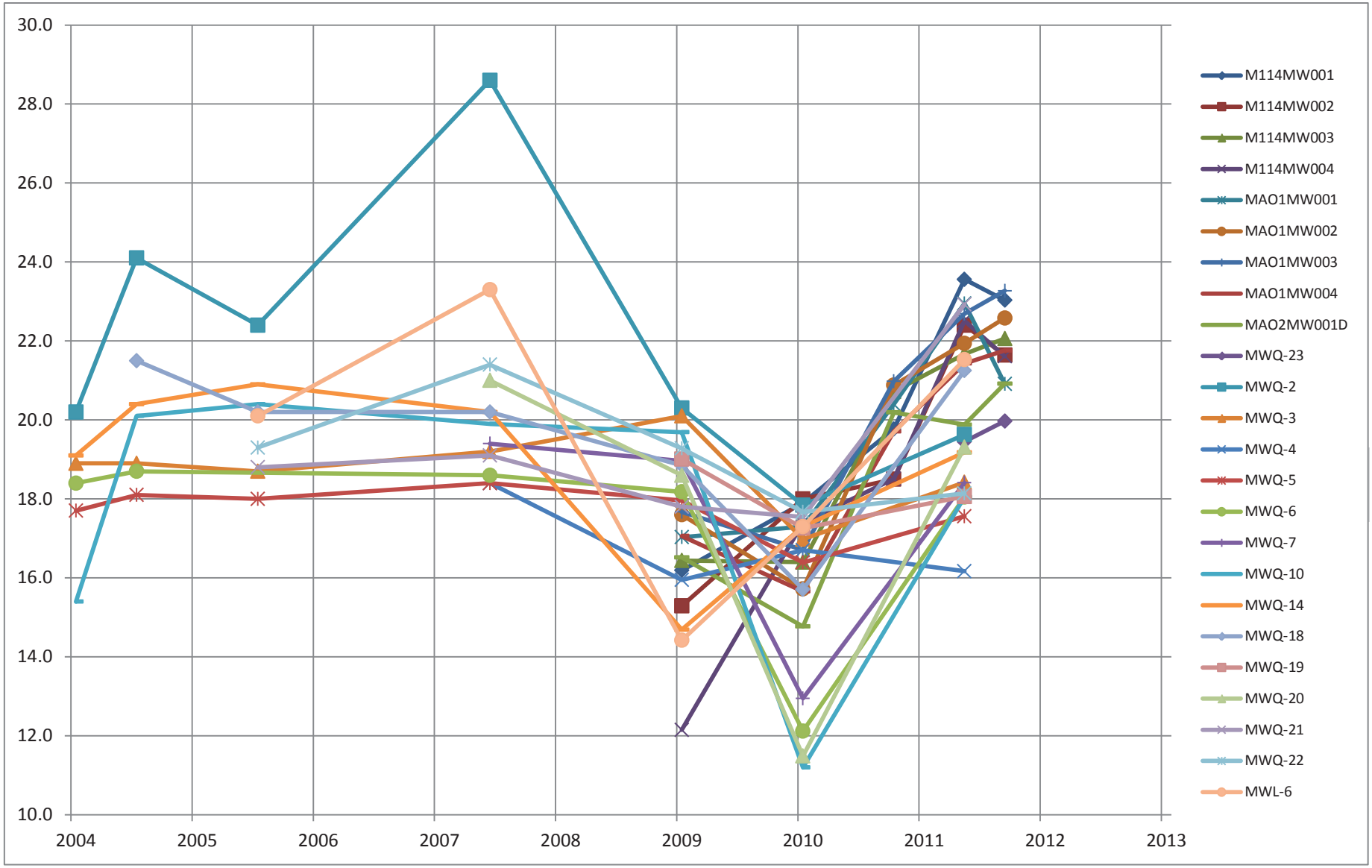
NMED SSL Tapwater Screening Level: n/a

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network													
						Background	Background							
	MWQ-2	MWQ-3	MWQ-4	MWQ-5	MWQ-6	MWQ-7	MWQ-10	MWQ-14	MWQ-18	MWQ-19	MWQ-20	MWQ-21	MWQ-22	MWL-6
Jan-04	20.20	18.90		17.70	18.40		15.40	19.10						
Jul-04	24.10	18.90		18.10	18.70		20.10	20.40	21.50					
Jul-05	22.40	18.70		18.00			20.40	20.90	20.20			18.80	19.30	20.10
Jun-07	28.60	19.20	18.40	18.40	18.60	19.40	19.90	20.20	20.20		21.00	19.10	21.40	23.30
Jan-09	20.30	20.10	15.95	17.96	18.18	18.96	19.69	14.69	18.85	19.01	18.60	17.80	19.28	14.42
Jan-10	17.84	16.98	16.70	16.39	12.12	12.95	11.20	17.30	15.71	17.26	11.49	17.54	17.67	17.30
Oct-10														
May-11	19.63	18.42	16.17	17.56	18.05	18.41	18.05	19.18	21.25	18.06	19.31	22.93	18.14	21.53
Sep-11														
Min	17.84	16.98	15.95	16.39	12.12	12.95	11.20	14.69	15.71	17.26	11.49	17.54	17.67	14.42
Max	28.60	20.10	18.40	18.40	18.70	19.40	20.40	20.90	21.50	19.01	21.00	22.93	21.40	23.30
Average	21.87	18.74	16.81	17.73	17.34	17.43	17.82	18.82	19.62	18.11	17.60	19.23	19.16	19.33

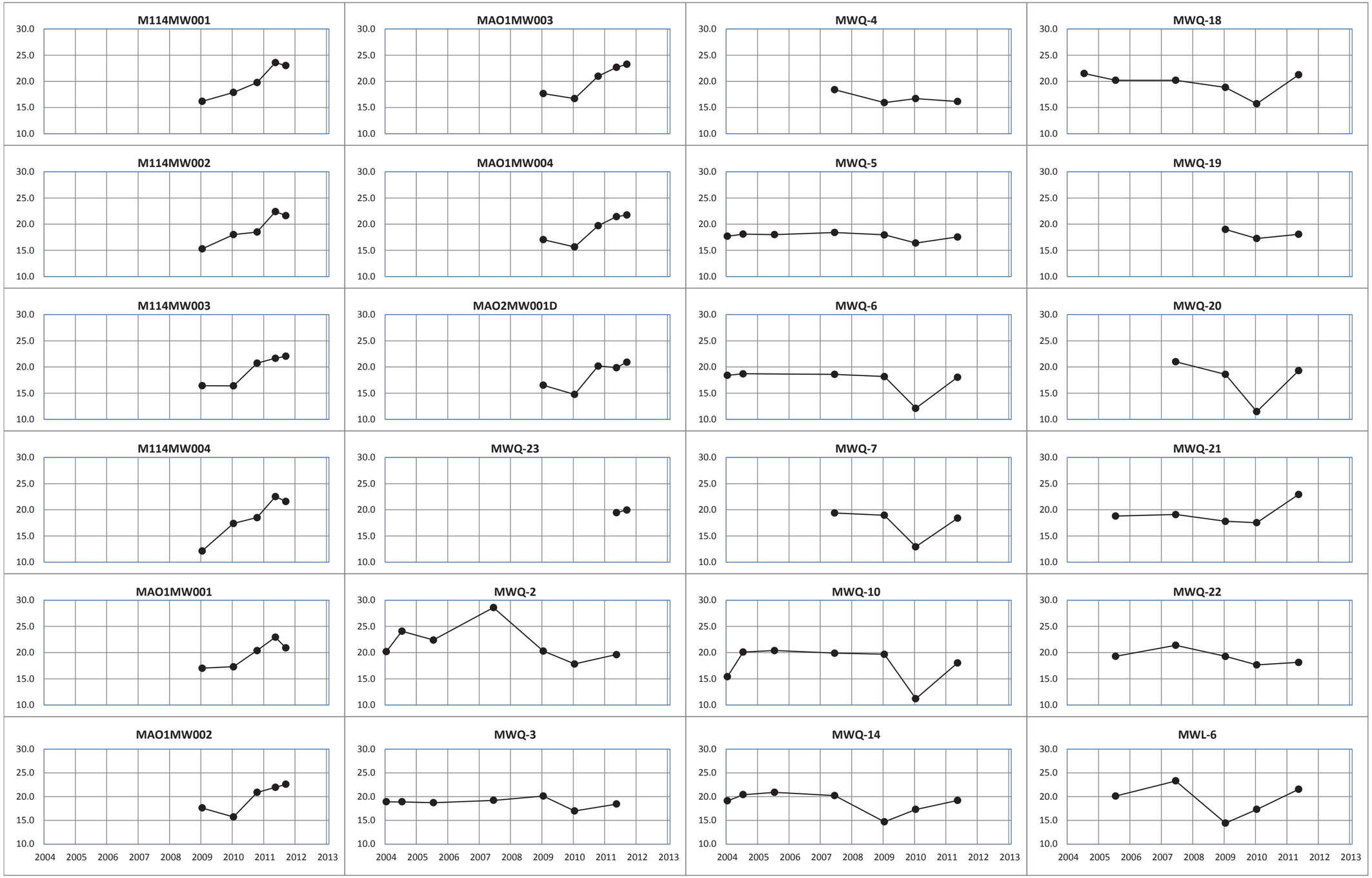
TABLE 4d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in degrees Celsius

TABLE 4d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mS/cm

TABLE 4d
TEMPERATURE

TABLE 4e
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network									
	SWMU 114				SWMU 130				SWMU 131	
	M114MW001	M114MW002	M114MW003	M114MW004	MAO1MW001	MAO1MW002	MAO1MW003	MAO1MW004	MAO2MW001D	MWQ-23
Jan-04										
Jul-04										
Jul-05										
Jun-07										
Jan-09	5.20	33.00	13.00	5.00	14.00	3.10	8.80	6.00	6.10	
Jan-10	26.20	70.70	55.80	93.60	80.60	165.00	0.00	12.70	53.80	
Oct-10	1.08	10.8	7.11	0.84	3.84	3.76	15.9	6.54	1.97	
May-11	3.4	9.96	14.2	3.03	10.1	1.13	2.21	4.82	4.8	0.99
Sep-11	5.1	8.06	23.5	8.05	6.02	4.25	1.39	2.22	2.96	2.13
Min	1.08	8.06	7.11	0.84	3.84	1.13	0.00	2.22	1.97	
Max	26.20	70.70	55.80	93.60	80.60	165.00	15.90	12.70	53.80	
Average	8.20	26.50	22.72	22.10	22.91	35.45	5.66	6.46	13.93	

Notes:

Data in NTUs

NMAC WQCC Groundwater Limit: n/a

USEPA Drinking Water MCL: n/a

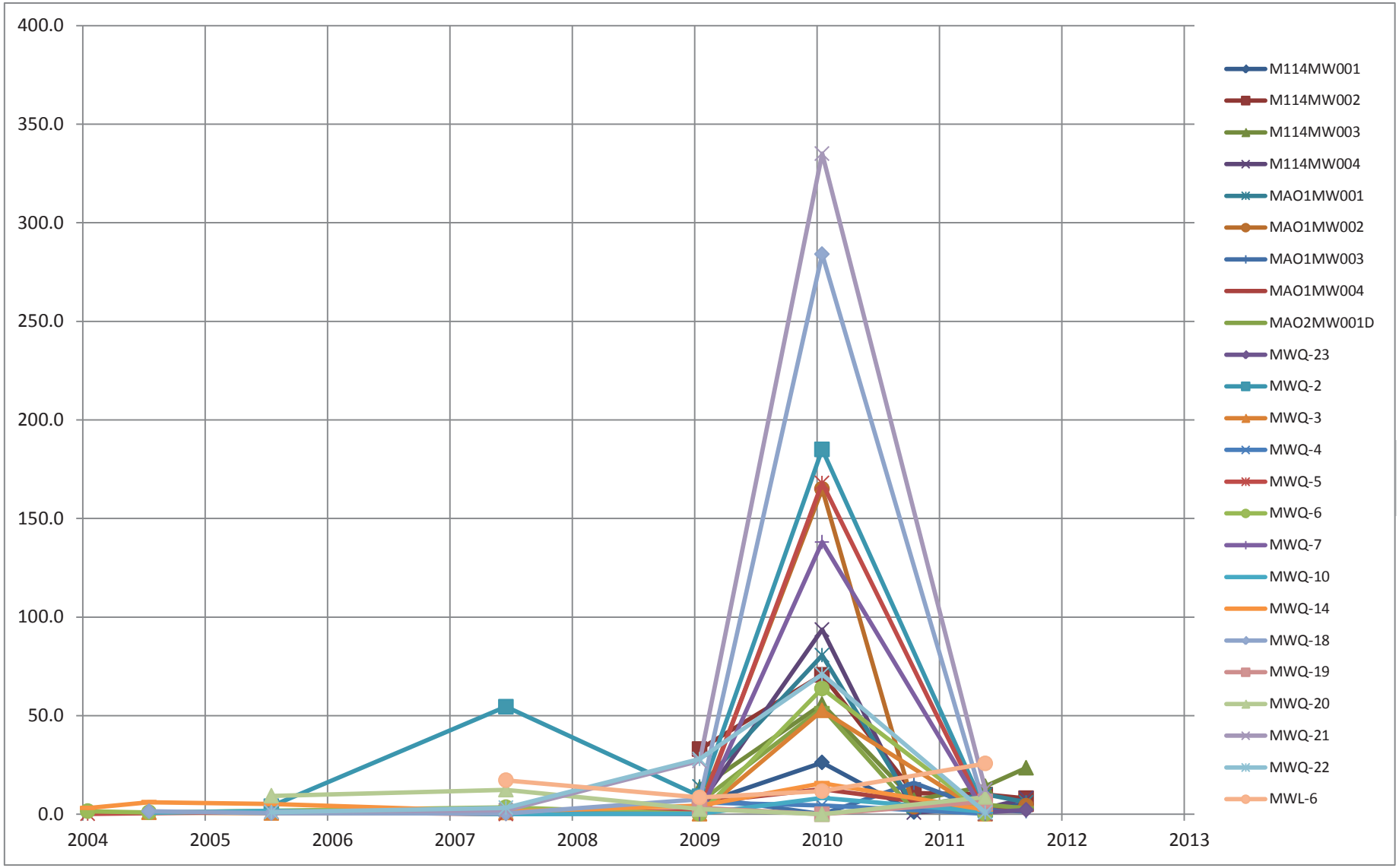
NMED SSL Tapwater Screening Level: n/a

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network													
						Background	Background							
	MWQ-2	MWQ-3	MWQ-4	MWQ-5	MWQ-6	MWQ-7	MWQ-10	MWQ-14	MWQ-18	MWQ-19	MWQ-20	MWQ-21	MWQ-22	MWL-6
Jan-04				0.20	1.54			3.15						
Jul-04		0.92			0.90		0.79	6.12	1.49					
Jul-05	4.06	0.57		1.21			1.76	5.21	0.52		9.320	1.26	1.07	
Jun-07	54.50	0.79		0.07	3.50	0.35	0.09	1.44	0.39		12.40	1.98	3.29	17.20
Jan-09	9.10	0.25	5.90	1.80	0.18	0.15	0.25	4.40	7.50	3.20	2.60	27.00	28.00	8.50
Jan-10	185.00	52.60	4.50	168.00	63.80	138.00	8.30	15.70	284.00	0.00	0.00	335.00	70.90	11.70
Oct-10														
May-11	2.02	0.17	0.26	0.2	0.27	0.17	1.32	2.29	2.5	6.46	8.71	12.4	0.87	25.7
Sep-11														
Min	2.02	0.17	0.26	0.07	0.18	0.15	0.09	1.44	0.39	0.00	0.00	1.26	0.87	8.50
Max	185.00	52.60	5.90	168.00	63.80	138.00	8.30	15.70	284.00	6.46	12.40	335.00	70.90	25.70
Average	50.94	9.22	3.55	28.58	11.70	34.67	2.09	5.47	49.40	3.22	6.61	75.53	20.83	15.78

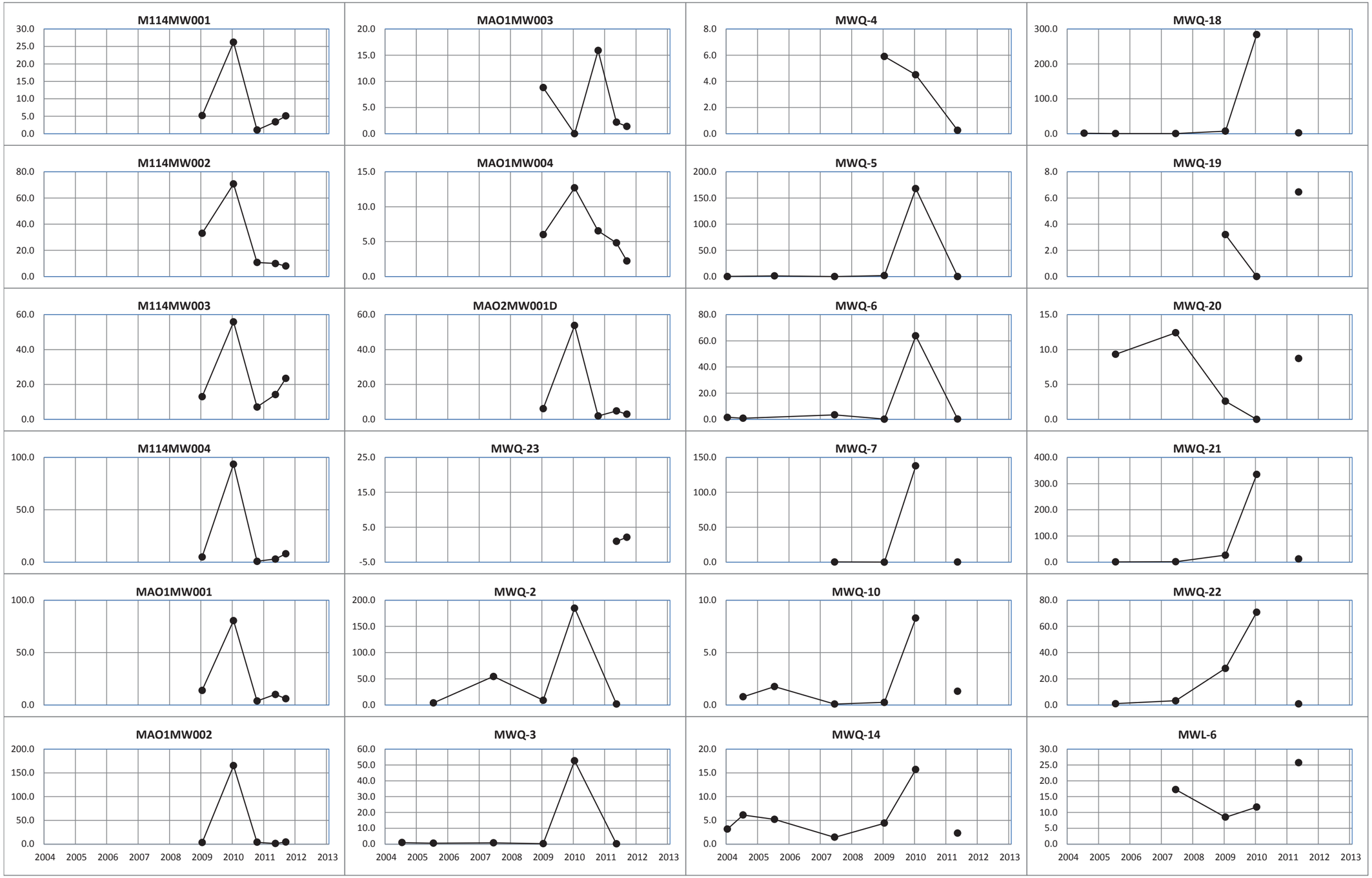
TABLE 4e
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in NTUs

TABLE 4e
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:

Data in mS/cm

TABLE 5a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

								Semiannual																	
	Test Site ID							M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
LAB INFO	Lab Sample No.							21105060815		21105060805		21105060807		21105060802		21105060810		21105170901		21105060819		21105060818		21105060801		21105170902	
	Sample Date							5/9/2011		5/6/2011		5/6/2011		5/5/2011		5/9/2011		5/16/2011		5/10/2011		5/10/2011		5/5/2011		5/16/2011	
	Sample Time							9:55:00 AM		11:35:00 AM		2:30:00 PM		3:16:00 PM		2:16:00 PM		9:35:00 AM		1:20:00 PM		11:11:00 AM		12:23:00 PM		11:10:00 AM	
	Parameter	Method	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	79.1		69.2		44.5		56.6		169		171		161		192		130		327	
	Chloride	300.0	mg/L	**250.0**	250	---	---	**3280**		**3660**		**4550**		**4180**		**651**		**473**		**537**		**269**		**2190**		235	
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0013	B	0.0006	U	0.0006	U
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.901		0.375		0.719		0.9		0.233		0.325		0.163		0.615		1.56		0.003	U
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.003	U	*0.004*	B	*0.004*	B	*0.004*	B	*0.004*	B	0.003	U	0.003	U	0.003	U	*0.004*	B	0.003	U
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**2140**		**2130**		**2460**		**2110**		**704**		**544**		**616**		**352**		**2130**		**423**	
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**8270**		**7800**		**9540**		**7000**		**1980**		**1780**		**1760**		**1110**		**6290**		**1420**	
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	60	U	*78.8*	B	*63.6*	B	60	U	**276**		60	U	*111*	B	60	U	*79.6*	B	60	U
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	*77.6*	B	60	U	*67.3*	B	60	U	*105*	B	*164*	B	60	U	60	U	60	U	60	U
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	**102**		4.03	U	4.03	U	4.03	U	4.03	U
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	U	4.03	U	4.03	U	*4.59*	B	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	U	2.53	U	2.53	U	2.53	U	2.53	U	2.53	U	2.53	U	2.53	U	2.53	U	*3.23*	B
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*2.74*	B	2.53	U	2.53	U	*4.01*	B	2.53	U	2.53	U	2.53	U	2.53	U	*5.99*	B	2.53	U
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	23.7		23.9		20.9		23.8		27.8		17.6		28.8		30.7		19.8		13.3	
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	18.7		17.5		14.6		17.8		18		16.5		20.2		23.7		12.7		11.9	
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*0.31*	B	0.2	U	0.2	U	*0.35*	B	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*0.88*	B	*0.69*	B	*0.81*	B	*0.9*	B	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Calcium (Total)	6010C	ug/L	---	---	---	---	269000		252000		342000		326000		49700		35100		63100		38200		127000		13600	
	(Dissolved)	6010C	ug/L	---	---	---	---	280000		257000		342000		338000		50800		37400		59600		36800		127000		14400	
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*7.48*	B	*8.55*	B	*6.04*	B	*5.33*	B	*8.54*	B	*3.05*	B	*4.46*	B	*5.09*	B	*2.52*	B	1	U
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*5*	B	*5.75*	B	*3.89*	B	*4.02*	B	*2.24*	B	*2.09*	B	*2.19*	B	*1.3*	B	*1.46*	B	1	U
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	18		7	B	2.8	U	2.8	U
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	22.5		29.8		23.7		36.9		14.3		11		44		87.7		226		*4.95*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	21		25.1		22		35.2		13.4		11.6		17.7		23		116		*5.49*	B
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	*79.9*	B	160		130		40	U	204		40	U	116		176		40	U	*43.8*	B
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	U	40	U	40	U	40	U	*46.6*	B	40	U	40	U	40	U	40	U	40	U
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	*2.3*	B	1.39	U	*1.92*	B
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U
	Magnesium (Total)	6010C	ug/L	---	---	---	---	239000		238000		270000		285000		48700		34200		63400		36600		71800		9350	
	(Dissolved)	6010C	ug/L	---	---	---	---	250000		244000		271000		295000		50100		36700		60300		35000		73500		9750	
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	*4.1*	B	*9.22*	B	*7.83*	B	*5.27*	B	*12.6*	B	*2.76*	B	*7.94*	B	*6.88*	B	**248**		**66.8**	
	(Dissolved)	6010C	ug/L	200	**50**	876	---	2	U	2	U	2	U	*3.11*	B	*2.16*	B	2	U	2	U	*2.26*	B	**208**		**70.1**	
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*16.9*	B	*20.5*	B	*8.07*	B	*12.5*	B	*4.94*	B	*7.44*	B	*4.39*	B	*7.31*	B	*18.1*	B	*31.9*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*17.9*	B	*20.5*	B	*8.48*	B	*13*	B	*5.66*	B	*8.79*	B	*4.09*	B	*6.27*	B	*17.5*	B	*34*	B
	Nickel (Total)	6010C	ug/L	**200**	---	730	---	*19.7*	B	*27*	B	0.96	U	0.96	U	*2.96*	B	0.96	U	0.96	U	*2.29*	B	*1.31*	B	0.96	U
	(Dissolved)	6010C	ug/L	**200**	---	730	---	*19.1*	B	*26.2*	B	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	*1.44*	B	0.96	U
	Potassium (Total)	6010C	ug/L	---	---	---	---	18500		18200		19800		20300		7780		6860		8970		6610		10400		2520	
	(Dissolved)	6010C	ug/L	---	---	---	---	19300		18200		19700		20600		7880		7280		8430		6400		10300		2680	
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*31.1*	B	*20*	B	*30.7*	B	*19.6*	B	4.34	U	*5.87*	B	4.34	U	*4.44*	B	**94.7**		4.34	U
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*28.8*	B	*21.8*	B	*31.5*	B	*18.9*	B	4.34	U	4.34	U	4.34	U	4.34	U	**107**		4.34	U
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	Sodium (Total)	6010C	ug/L	---	---	---	---	1960000		2040000		2620000		2260000		567000		491000		469000		308000		1930000		451000	
	(Dissolved)	6010C	ug/L	---	---	---	---	2020000		2020000		2550000		2240000		588000		527000		458000		297000		1910000		489000	
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	U	1.2	U	1.2	U	1.2	U	*3.16*	B	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	U	1.2	U	1.2	U	1.2	U	*1.53*	B	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	75.3		81		79.7		74.9		61.1		50.8		68.2		58.8		69.9		*16.1*	B
	(Dissolved)	6010C	ug/L	---	---	**183**	---	73.5		74.3		76.2		68.9		58.3		53.4		65.5		56.4		66.2		*16.5*	B
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	47.2		175		*17.5*	B	655		*2.74*	B	20.1		*13.4*	B	*22.3*		129		24.7	
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	46.8		163		*14.2*	B	653		2.72	U	2.72	U	*4.16*	B	*9.8*	B	128		25	
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	3.27		2.8		4.1		2.79		*0.369*		2.05		1.03		9.8		**22.4**		*0.3*	
	Acetone	8260B	ug/L	---	---	21,800	---	0.322	UQ	0.322	UB	0.322	UB	0.322	UB	0.322	U	0.322	U	7.24	Q	17.6	Q	0.322	UB	0.322	U
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000	3.06		16.3		4.55		12.4		6.28		1.89		0.078	U	0.078	U	16		0.078	U
	Explosives	8330	Explosives were not detected in any ground water samples collected.					Explosives were not detected in any ground water samples collected.																			

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

J - Indicates the result is between the MDL and RDL

U - Indicates the compound was analyzed for but not detected

B - (Organics) Indicates the analyte was detected in the associated Method Blank

B - (Inorgancis) Indicates the result is between the RDL and MDL

Q - Indicates that the LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria

TABLE 5a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

								Annual																							
	Test Site ID							MWL-6		MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22	
LAB INFO	Lab Sample No.							21105190401		21105042611		21105042601		21105042602		21105042603		21105042605		21105042606		21105042607		21105042616		21105042615		21105042614		21105042620		21105042613		21105042612	
	Sample Date							5/18/2011		5/5/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/3/2011		5/13/2011		5/12/2011		5/12/2011		5/17/2011		5/11/2011		5/11/2011	
	Sample Time							2:30:00 PM		9:26:00 AM		9:15:00 AM		10:18:00 AM		11:57:00 AM		1:12:00 PM		1:53:00 PM		3:23:00 PM		12:31:00 PM		12:40:00 PM		9:50:00 AM		1:22:00 PM		1:05:00 PM		11:01:00 AM	
	Parameter	Method	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	129		83.1		145		177		175		160		147		216		133		161		302		55.7		244		147	
	Chloride	300.0	mg/L	**250.0**	250	---	---	107		**3310**		68.3		17.6		21.8		21.4		59.3		29.3		**715**		40.3		**2050**		**6010**		121		**342**	
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.408		0.244		0.738		3.43		5.53		3.39		1.31		7.07		1.59		0.372		0.003	U	0.003	U	2.44		0.309	
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.013		0.003	U	0.003	U	0.003	U	*0.004*	B	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	*0.007*	B	*0.006*	B	*0.008*	B	0.011	
	Sulfate	300.0	mg/L	600.0	**250**	---	---	216		**1350**		150		59		90.8		85.5		156		60.6		**994**		110		**1530**		**1630**		**476**		233	
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**658**		**7120**		430		300		374		352		480		390		**2670**		**520**		**5500**		**11900**		**900**		**936**	
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*69.7*	B	60	U	60	U	60	U	60	U	60	U	60	U	60	U	*60.6*	B	*153*	B	*72.4*	B	**261**		**1100**		60	U
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	39	U	**272**		60	U
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	U	4.03	U	*5.7*	B	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	4.03	U	*20.3*	B	4.03	U	4.03	U
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	U	4.03	U	4.03	U	*5.07*	B	*4.74*	B	4.03	U	*5.98*	B	4.03	U	4.03	U	4.03	U	4.03	U	*6*	B	4.03	U	4.03	U
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	*5.89*	B	2.53	U	**13.5**		**11**		*9.27*	B	**10.2**		*3.8*	B	*8.34*	B	2.53	U	*6.33*	B	2.53	U	2.53	U	*6.1*	B	2.53	U
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*3.95*	B	*3*	B	**15.9**		**10.5**		*7.43*	B	*7.16*	B	*8.35*	B	*7.83*	B	*3.99*	B	*7.34*	B	*3.75*	B	*3.95*	B	*9.41*	B	2.53	U
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	24.1		34.3		31.1		50.4		35.6		38.5		33.7		124		15.3		35.6		26		26.3		48.9		40.8	
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	20.8		28.2		27.2		46.2		30.3		34.6		29.5		123		11.9		33.8		21.8		21.5		32.6		37.6	
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	0.2	U	0.2	U	*0.44*	B	*0.36*	B	*0.76*	B	*0.72*	B	*0.87*	B	*0.73*	B	0.2	U	*0.65*	B	*1.11*	B	*1.93*	B	*0.51*	B	0.2	U
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	0.2	U	*0.49*	B	*0.83*	B	*0.94*	B	*1.1*	B	*0.96*	B	*1.35*	B	*0.86*	B	0.2	U	*1.01*	B	*1.27*	B	*2.01*	B	*0.69*	B	0.2	U
	Calcium (Total)	6010C	ug/L	---	---	---	---	69200		187000		30200		42300		42500		40800		57600		53600		65900		41200		286000		556000		122000		37300	
	(Dissolved)	6010C	ug/L	---	---	---	---	69200		204000		29600		42300		40800		40600		57200		54300		66700		44400		285000		544000		120000		38500	
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*2.02*	B	*2.53*	B	*1.65*	B	1	U	*1.48*	B	*1.42*	B	1	U	1	U	*2.31*	B	15.9		*2.38*	B	*3.38*	B	*4.41*	B	1	U
	(Dissolved)	6010C	ug/L	**50**	100	---	100	1	U	*2.25*	B	*1.15*	B	1	U	1	U	1	U	*1.34*	B	*1.07*	B	*1.98*	B	1	U	*2.18*	B	*2.58*	B	*1.95*	B	1	U
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	U	*3*	B	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	*5*	B	2.8	U	2.8	U	2.8	U	2.8	U	32		2.8	U
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	*1.74*	B	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	*1.23*	B	1	U	1	U
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	*1.1*	B	1	U	1	U
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	13.3		23.9		10.4		11.8		*9.64*	B	*7.09*	B	*8.93*	B	12.3		16.1		814		20.1		23.2		15		*7.72*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	*9.01*	B	22.2		10.8		*9.83*	B	*8.59*	B	*7.23*	B	*8.81*	B	12.2		14.5		554		18		21.3		13.3		*6.97*	B
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	**7450**		*52.8*	B	40	U	40	U	40	U	40	U	40	U	40	U	40	U	168		**2820**		241		**669**		147	
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	**566**		40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	**2590**		*71.1*	B	127		142	
	Lead (Total)	6010C	ug/L	50	**15**	---	15	*2.5*	B	1.39	U	1.39	U	*2.79*	B	1.39	U	1.39	U	*4.79*	B	*1.54*	B	1.39	U	*1.79*	B	1.39	U	1.39	U	1.39	U	1.39	U
	(Dissolved)	6010C	ug/L	50	**15**	---	15	*1.9*	B	1.39	U	*6.4*	B	*2.61*	B	1.39	U	*2.42*	B	*3.4*	B	*2.43*	B	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U	1.39	U
	Magnesium (Total)	6010C	ug/L	---	---	---	---	33800		124000		33100		19400		23100		19700		24500		40400		61800		18700		188000		311000		57600		16200	
	(Dissolved)	6010C	ug/L	---	---	---	---	33700		135000		32300		19200		21600		19300		24600		40500		62400		20200		188000		306000		57700		17400	
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	**265**		**82.9**		2	U	2	U	2	U	2	U	2	U	2	U	*13.8*	B	*5.27*	B	**436**		**967**		19.9		**426**	
	(Dissolved)	6010C	ug/L	200	**50**	876	---	**158**		**50.1**		2	U	2	U	2	U	2	U	2	U	2	U	2	U	*9.28*	B	**432**		**934**		2	U	**440**	
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	*0.0921*	B	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	3.75	U	*20.6*	B	*3.84*	B	3.75	U	3.75	U	3.75	U	3.75	U	*3.77*	B	*25.4*	B	*16.4*	B	3.75	U	*17*	B	*9.63*	B	*11.1*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	3.75	U	*22.6*	B	*4.54*	B	3.75	U	3.75	U	3.75	U	3.75	U	*4.87*	B	*26*	B	*11.6*	B	3.75	U	*16.4*	B	*9.72*	B	*12*	B
	Nickel (Total)	6010C	ug/L	**200**	---	730	---	*1.09*	B	*1.6*	B	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	*1.18*	B	*6.94*	B	0.96	U	0.96	U	*1.27*	B	0.96	U
	(Dissolved)	6010C	ug/L	**200**	---	730	---	0.96	U	*1.89*	B	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U
	Potassium (Total)	6010C	ug/L	---	---	---	---	5470		11600		6210		3310		3260		2120		2690		5950		11400		2770		10400		16200		10300		3260	
	(Dissolved)	6010C	ug/L	---	---	---	---	5560		12600		6210		3310		3240		2610		2650		6090		11400		2870		10400		15700		9970		3340	
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*9.06*	B	4.34	U	4.34	U	4.34	U	4.34	U	4.34	U	4.34	U	4.34	U	*26.3*	B	4.34	U	4.34	U	4.34	U	*11*	B	4.34	U
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*8.02*	B	4.34	U	4.34	U	4.34	U	4.34	U	4.34	U	*6.12*	B	4.34	U	*23.3*	B	4.34	U	4.34	U	4.34	U	*9.9*	B	*5*	B
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
	Sodium (Total)	6010C	ug/L	---	---	---	---	69600		2170000		81700		55900		65200		57900		72000		21100		628000		65500		1100000		2970000		184000		315000	
	(Dissolved)	6010C	ug/L	---	---	---	---	67800		2260000		80300		56400		63600		57900		72700		21500		633000		68800		1110000		2780000		181000		319000	
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U	1.75	U
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	*1.42*	B	*10.6*	B	1.2	U
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	*5.29*	B	1.2	U
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	69.9		73.5		104		79.8		84.3		77.7		76.8		68.8		59		78.6		64.3		64		99.7		29.4	
	(Dissolved)	6010C	ug/L	---	---	**183**	---	59.3		71.6		100		78.8		80.8		78.4		74.4		69.8		58.1		79.9		64.6		64.1		98.8		32.2	
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	93.6		394		2.72	U	*7.24*	B	*2.88*	B	*7.87*	B	2.72	U	*3.3*	B	2.72	U	52.4		865		2370		*15.6*	B	*7.64*	B
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	*4.65*	B	426		2.72	U	*7.38*	B	2.72	U	*5.61*	B	2.72	U	*4.86*	B	2.72	U	38.2		615		2190		2.72	U	2.72	U
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	9.94		0.198		7.31		3.08		3		3.98		5.84		5.3		4.52		10.8		0.198		0.495		8.27		1.48	
	Acetone	8260B	ug/L	---	---	21,800	---	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
	Toluene	8260B	ug/L	**750**	1000	2,290	1,000	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
	Explosives	8330	Explosives were not detected in any ground water samples collected.					NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

J - Indicates the result is between the MDL and RDL

U - Indicates the compound was analyzed for but not detected

B - (Organics) Indicates the analyte was detected in the associated Method Blank

B - (Inorgancis) Indicates the result is between the RDL and MDL

Q - Indicates that the LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria

TABLE 5a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

								Semiannual																	
							Test Site ID	M114MW001		M114MW002		M114MW003		M114MW004		MA01MW001		MA01MW002		MA01MW003		MA01-MW004		MA02 MW001D		MWQ-23	
LAB INFO							Lab Sample No.	21110010502		21110010505		21110010506		21110010501		21109280401		21109280412		21109280402		21109280411		21109280407		21109280410	
							Sample Date	9/30/2011		10/3/2011		10/3/2011		9/30/2011		9/27/2011		9/29/2011		9/27/2011		9/29/2011		9/28/2011		9/29/2011	
							Sample Time	12:36		09:32		11:46		10:00		09:33		13:06		12:21		11:10		10:28		08:40	
	Parameter	Method	Unit	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier	Result	Lab Qualifier
GENERAL PARAMETERS	Alkalinity	2320B	mg/L	---	---	---	---	79.4		79.8		53.5		59.3		172		180		152		200		142		333	
	Chloride	300.0	mg/L	**250.0**	250	---	---	**3060**		**3130**		**3920**		**3970**		**525**		**431**		**477**		**251**		**1640**		212	
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	U	0.0006	U	0.0009	B	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.899		0.245		0.43		0.511		0.116		0.207		0.085		0.339		1.71		0.013	
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.003	U	*0.003*	B	*0.005*	B	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.035		0.003	U
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**1810**		**1580**		**1880**		**1630**		**564**		**514**		**524**		**329**		**1860**		**396**	
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**7640**		**7610**		**9870**		**9500**		**1990**		**1720**		**1790**		**1130**		**5620**		**1310**	
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*100*	B	*85.3*	B	**200**		*110*	B	*84.3*	B	60	U	60	U	60	U	60	U	60	U
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	*5.29*	B	3.98	U	3.98	U	3.98	U
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U	3.98	U
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*3.83*	B	3.49	U	3.49	U	*4.75*	B	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U	3.49	U
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	17.4		17.3		14.3		15.2		14.9		16.3		20.7		23		*9.84*	B	11.3	
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	16.9		15.5		11.9		15		14.7		15.1		18.1		23.4		*9.44*	B	10.8	
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*1.16*	B	*1.37*	B	*1.53*	B	*1.58*	B	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*1.19*	B	*1.12*	B	*1.23*	B	*1.4*	B	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Calcium (Total)	6010C	ug/L	---	---	---	---	259000		251000		317000		303000		51000		39000		64100		39300		114000		14700	
	(Dissolved)	6010C	ug/L	---	---	---	---	285000		267000		334000		339000		51300		39100		58600		39900		119000		14700	
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*8.46*	B	*4.92*	B	*2.88*	B	*4.29*	B	*1.06*	B	*2.47*	B	*1.96*	B	*1.21*	B	*1.31*	B	1	U
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*4.17*	B	*3.73*	B	*1.33*	B	*2.38*	B	1	U	*1.12*	B	1	U	1	U	1	U	1	U
	Chromium, VI	7196A	ug/L	---	100	110	---	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U	3.3	U
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	15.8		13.8		13.3		13.8		10.6		10.2		13.7		*8.23*	B	25.3		*5.68*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	15.6		15.8		15.1		17.6		11.7		10.6		12.7		*9.63*	B	23.8		*5.14*	B
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	*47.1*	B	*60.5*	B	162		40	U	40	U	40	U	40	U	40	U	40	U	40	U
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U
	Lead (Total)	6010C	ug/L	50	**15**	---	15	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U
	(Dissolved)	6010C	ug/L	50	**15**	---	15	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U	2.83	U
	Magnesium (Total)	6010C	ug/L	---	---	---	---	236000		255000		270000		283000		48100		35800		61200		35500		67600		9550	
	(Dissolved)	6010C	ug/L	---	---	---	---	257000		258000		272000		283000		51400		36100		58700		36100		73300		9680	
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	2	U	*3.12*	B	*6.87*	B	*3.49*	B	*5.72*	B	*5.45*	B	*10.2*	B	*6.56*	B	**209**		**78**	
	(Dissolved)	6010C	ug/L	200	**50**	876	---	2	U	2	U	2	U	2	U	2	U	2	U	*8.24*	B	*5.81*	B	**188**		**75.9**	
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.075	U	*0.10199*	B	0.075	U	0.075	U	0.075	U	0.075	U	*0.09518*	B	*0.08023*	B	0.075	U	0.075	U
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	*0.08165*	B	0.075	U	*0.09168*	B	0.075	U	0.075	U	*0.09305*	B	0.075	U	*0.08433*	B	0.075	U	0.075	U
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*17.8*	B	*23.7*	B	*9.56*	B	*13.1*	B	*4.42*	B	*5.93*	B	3.75	U	*4.78*	B	*14*	B	*30.4*	B
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*18.8*	B	*22.1*	B	*8.6*	B	*13.3*	B	*4.61*	B	*6.66*	B	3.75	U	*5.07*	B	*15.2*	B	*31.3*	B
	Nickel (Total)	6010C	ug/L	**200**	---	730	---	*8.97*	B	40.6		0.84	U	*1.22*	B	0.84	U	0.84	U	0.84	U	0.84	U	*1.43*	B	0.84	U
	(Dissolved)	6010C	ug/L	**200**	---	730	---	*9.23*	B	*39.4*	B	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	*2.14*	B	0.84	U
	Potassium (Total)	6010C	ug/L	---	---	---	---	16400		16500		17000		17100		7120		6640		7750		6040		8540		2570	
	(Dissolved)	6010C	ug/L	---	---	---	---	17700		16800		17400		18300		7670		6710		7620		6150		9280		2470	
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*30.3*	B	*23.2*	B	*29.6*	B	*21.6*	B	3.79	U	3.79	U	3.79	U	*6.15*	B	**117**		3.79	U
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*30.1*	B	*20.1*	B	*29.7*	B	*22.4*	B	3.79	U	*4.49*	B	3.79	U	*5.03*	B	**132**		3.79	U
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U	0.64	U
	Sodium (Total)	6010C	ug/L	---	---	---	---	2080000		2100000		2540000		2170000		569000		531000		459000		321000		1580000		472000	
	(Dissolved)	6010C	ug/L	---	---	---	---	2080000		2220000		2580000		2480000		556000		533000		430000		323000		1630000		481000	
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	U	*2.01*	B	*2.45*	B	1.2	U	1.2	U	1.2	U	*1.24*	B	1.2	U	1.2	U	1.2	U
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	*1.37*	B	1.2	U	*1.52*	B	1.2	U	*2.51*	B
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	*14.8*	B	*11*	B	*12.1*	B	*4*	B	23		25.9		29.6		26.4		24.5		*8.39*	B
	(Dissolved)	6010C	ug/L	---	---	**183**	---	*10.5*	B	*10.6*	B	*13.4*	B	*6.46*	B	26.1		27.4		26.7		32.5		25.9		*8.64*	B
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	394		239		276		347		229		210		339		276		288		*18.4*	B
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	413		234		271		366		248		219		316		305		301		*18.4*	B
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	3.14		2.78		4.06		3.21		3.57		1.88		4.13		4.07		**23.8**		0.100	
	(Dissolved)	6860	ug/L	---	---	---	**15**	2.7		2.77		3.29		2.54		2.66		1.49		2.98		3.53		**19.6**		0.100	
	Acetone	8260B	ug/L	---	---	21,800	---	1.41	J	0.909	J	1.75	J	5.42		0.322	U	0.322	U	0.322	U	0.322	U	0.322	U	0.322	U
	Methylene chloride	8260B	ug/L	**100**	---	48	5	0.891	J	0.102	U	1.37	J	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U
	Explosives	8330	Explosives were not detected in any ground water samples collected.					Explosives were not detected in any ground water samples collected.																			

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

J - Indicates the result is between the MDL and RDL

U - Indicates the compound was analyzed for but not detected

B - (Organics) Indicates the analyte was detected in the associated Method Blank

B - (Inorgancis) Indicates the result is between the RDL and MDL

Q - Indicates that the LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria

TABLE 5b
SUMMARY OF RECENT (FALL 2011) GROUNDWATER CHEMICAL ANALYTICAL DATA

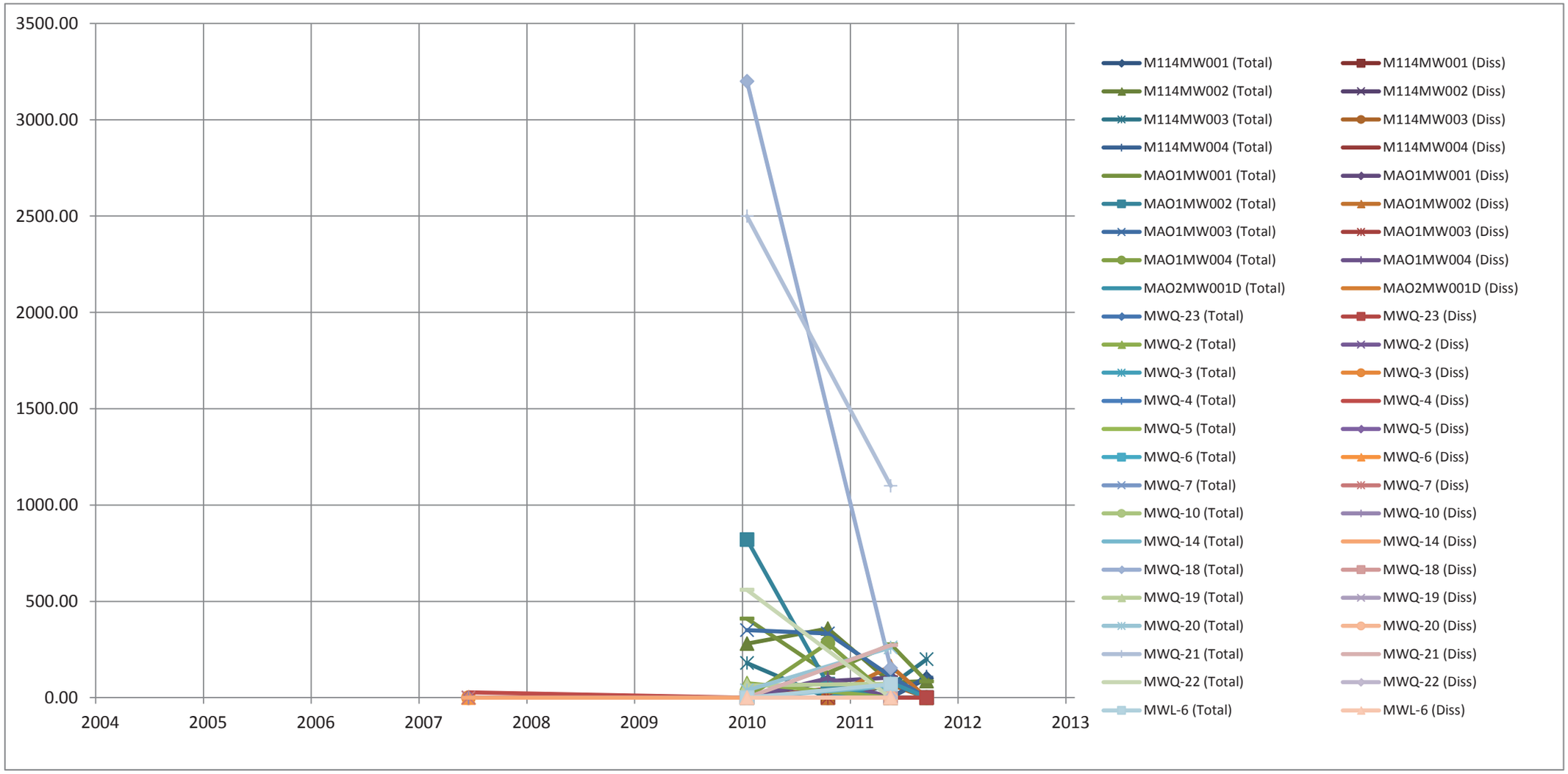
TABLE 6a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09																				
Jan-10	<D.L.	<D.L.	**280**	<D.L.	180	<D.L.	<D.L.	<D.L.	**410**	<D.L.	**820**	<D.L.	**350**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	**359**	<D.L.	<D.L.	<D.L.	45.3	46.7	128	85.2	69.8	<D.L.	**334**	<D.L.	**283**	100	<D.L.	<D.L.		
May-11	<D.L.	77.6	78.8	<D.L.	63.6	67.3	<D.L.	<D.L.	**276**	105	<D.L.	164	111	<D.L.	<D.L.	<D.L.	79.6	<D.L.	<D.L.	<D.L.
Sep-11	100	<D.L.	85.3	<D.L.	**200**	<D.L.	110	<D.L.	**84.3**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	78.8	0.0	0.0	0.0	0.0	0.0	84.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	100.0	77.6	359.0	0.0	200.0	67.3	110.0	46.7	410.0	105.0	820.0	164.0	350.0	0.0	283.0	100.0	79.6	0.0	0.0	0.0
Avg	25.0	19.4	200.8	0.0	110.9	16.8	38.8	11.7	224.6	47.6	222.5	41.0	198.8	0.0	70.8	25.0	19.9	0.0	0.0	0.0

Notes:
Data in µg/L
NMAC WQCC Groundwater Limit: 5000
USEPA Drinking Water MCL: 200
NMED SSL Tapwater Screening Level: 3650
Red indicates exceedance
Blank cells indicate no data

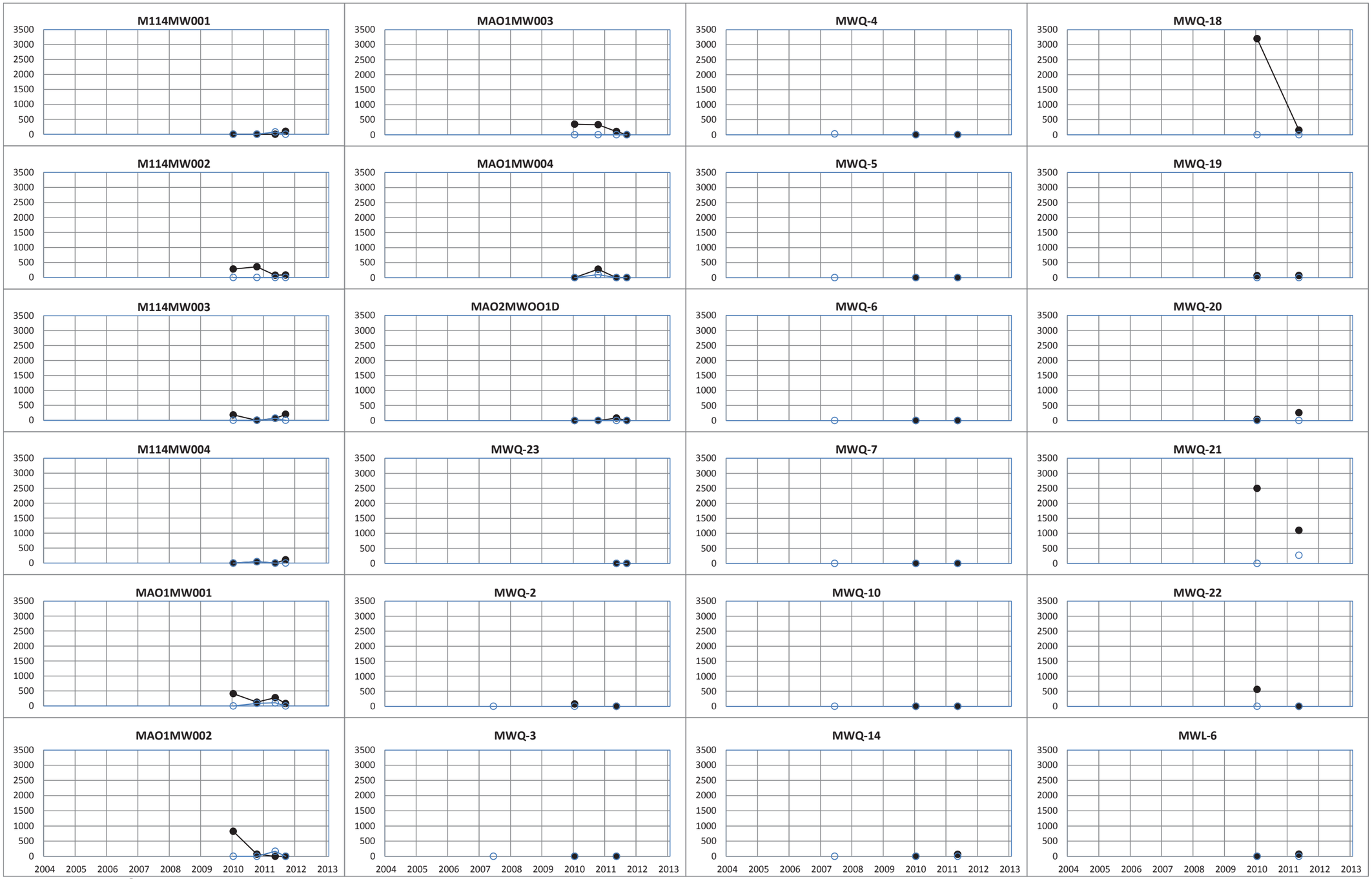
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																												
Jul-04																												
Jul-05																												
Jun-07		<D.L.		<D.L.		27.0		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.												
Jan-09																												
Jan-10	75	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**3200**	<D.L.	64	<D.L.	38	<D.L.	**2500**	<D.L.	**560**	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	60.6	<D.L.	153	<D.L.	72.4	<D.L.	**261**	<D.L.	**1100**	**272**	<D.L.	<D.L.	69.7	<D.L.
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	153.0	0.0	64.0	0.0	38.0	0.0	1100.0	0.0	0.0	0.0	0.0	0.0
Max	75.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.6	0.0	3200.0	0.0	72.4	0.0	261.0	0.0	2500.0	272.0	560.0	0.0	69.7	0.0
Avg	37.5	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.3	0.0	1676.5	0.0	68.2	0.0	149.5	0.0	1800.0	136.0	280.0	0.0	34.9	0.0

TABLE 6a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6a
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6b
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		0.59		<D.L.		<D.L.		0.65		0.16		<D.L.		<D.L.		<D.L.		0.89		
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**6.82**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	4.59	<D.L.	<D.L.	**102**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.29	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.6	0.0	0.0	0.0	0.0	6.8	4.6	0.0	0.2	102.0	0.0	5.3	0.0	0.0	0.0	0.0	0.9	0.0	0.0
Avg	0.0	0.1	0.0	0.0	0.0	0.0	1.7	1.0	0.0	0.0	25.5	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0

Notes:

Data in µg/L

NMAC WQCC Groundwater Limit:	---
USEPA Drinking Water MCL:	6
NMED SSL Tapwater Screening Level:	14.6

Red indicates exceedance

Blank cells indicate no data

Due to a preponderance of no detects trends are not plotted

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		1.9		<D.L.				0.084		0.068				0.056		0.26												
Jul-04		<D.L.		<D.L.				0.16		<D.L.				<D.L.		<D.L.		<D.L.										
Jul-05		<D.L.		<D.L.				0.091						<D.L.		0.36		0.082				0.360		0.11		0.048		<D.L.
Jun-07		0.22		<D.L.		<D.L.		0.11		<D.L.		<D.L.		<D.L.		0.11		0.071				0.500		0.099		0.23		
Jan-09		2.00		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		0.63		0.88		1.00		0.053
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	<D.L.	5.7	<D.L.	<D.L.	5.07	<D.L.	4.74	<D.L.	<D.L.	<D.L.	5.98	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**20.3**	6	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	2.0	5.7	0.0	0.0	5.1	0.0	4.7	0.0	0.1	0.0	6.0	0.0	0.1	0.0	0.4	0.0	0.1	0.0	0.0	20.3	6.0	0.0	0.9	0.0	1.0	0.0	0.1
Avg	0.0	0.6	2.9	0.0	0.0	1.3	0.0	0.7	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	10.2	1.5	0.0	0.2	0.0	0.3	0.0	0.0

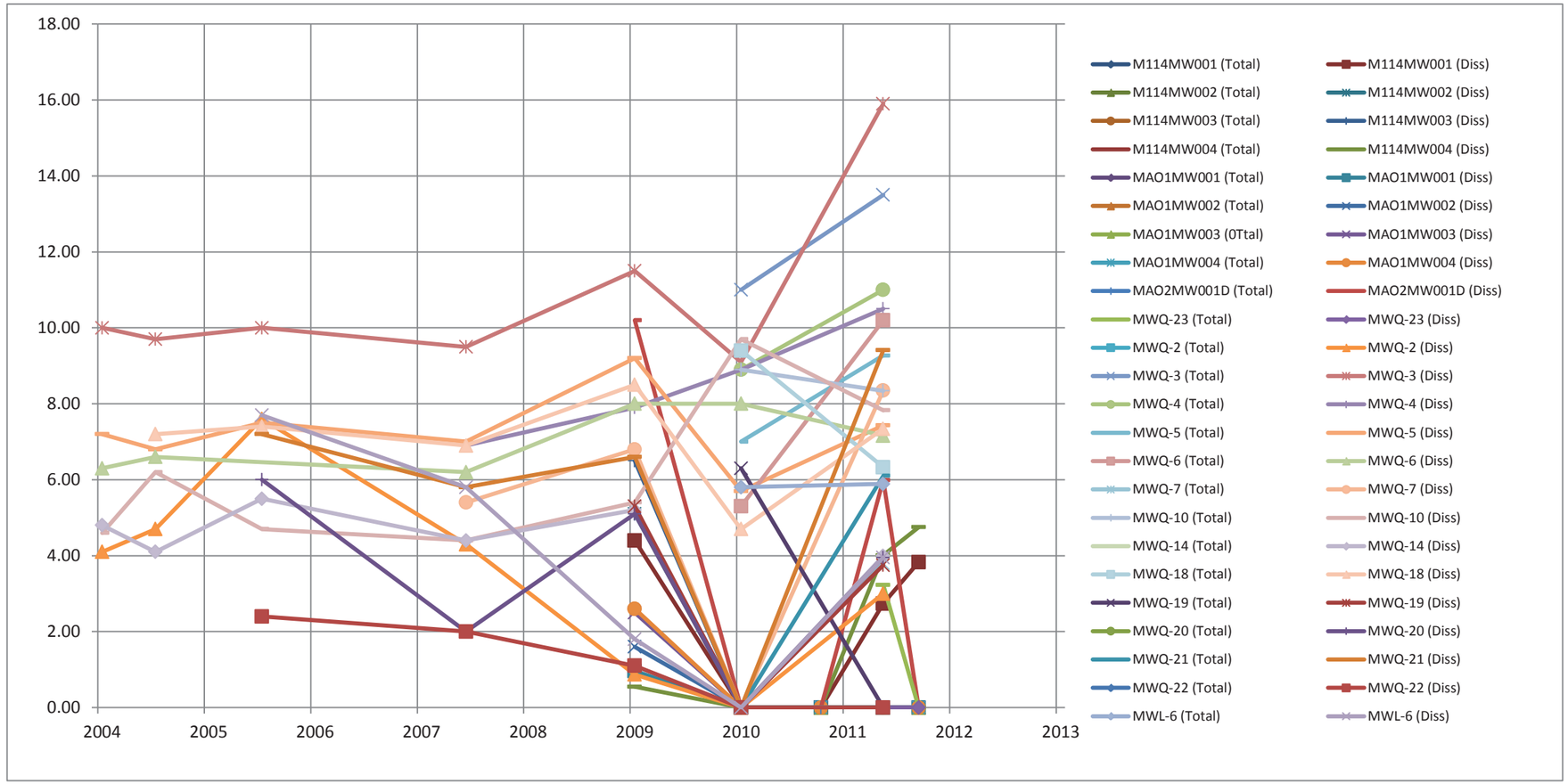
TABLE 6c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		4.4		5.1		6.5		0.55		0.96		1.6		2.5		2.6		**10.2**		
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	<D.L.	2.74	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	4.01	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.99	3.23	<D.L.
Sep-11	<D.L.	3.83	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	4.75	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	4.4	0.0	5.1	0.0	6.5	0.0	4.8	0.0	1.0	0.0	1.6	0.0	2.5	0.0	2.6	0.0	10.2	3.2	0.0
Avg	0.0	2.2	0.0	1.0	0.0	1.3	0.0	1.9	0.0	0.2	0.0	0.3	0.0	0.5	0.0	0.5	0.0	3.2	1.6	0.0

Notes:
Data in µg/L
NMAC WQCC Groundwater Limit: 100
USEPA Drinking Water MCL: 10
NMED SSL Tapwater Screening Level: 0.448
Red indicates exceedance
Blank cells indicate no data

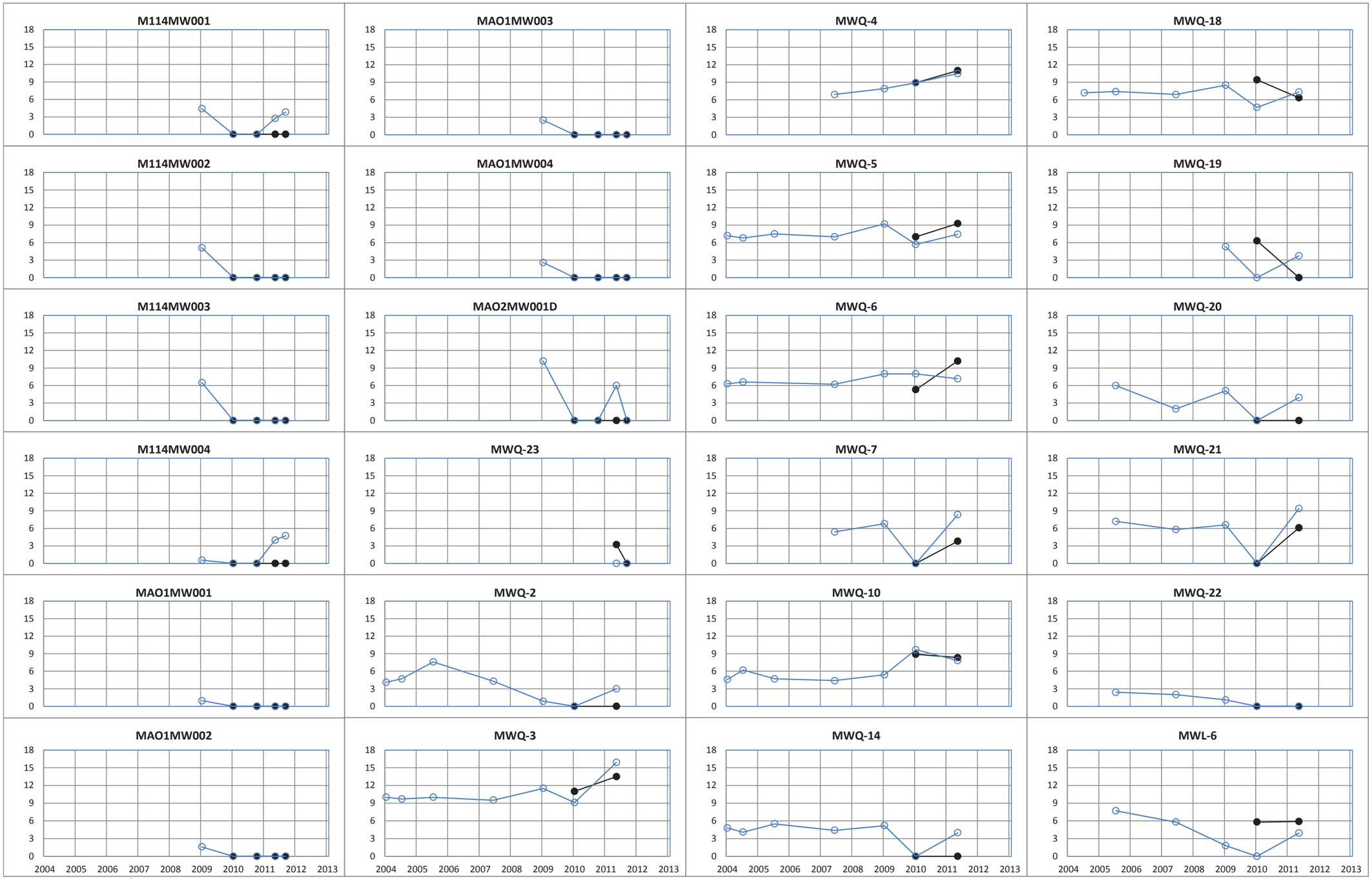
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		4.10		**10.0**				7.20		6.30				4.60		4.80												
Jul-04		4.7		9.7				6.8		6.6				6.2		4.1		7.2										
Jul-05		7.6		**10.0**				7.5						4.7		5.5		7.4				6.0		7.2		2.4		7.7
Jun-07		4.3		9.5		6.9		7.0		6.2		5.4		4.4		4.4		6.9				2.0		5.8		2.0		5.8
Jan-09		0.87		**11.5**		7.9		9.2		8.0		6.8		5.4		5.2		8.5		5.3		5.1		6.6		1.1		1.8
Jan-10	<D.L.	<D.L.	**11**	9.1	8.9	8.9	7.0	5.7	5.3	8	<D.L.	<D.L.	8.9	9.7	<D.L.	<D.L.	9.4	4.7	6.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.800	<D.L.
Oct-10																												
May-11	<D.L.	3	**13.5**	**15.9**	**11**	**10.5**	9.27	7.43	**10.2**	7.16	3.8	8.35	8.34	7.83	<D.L.	3.99	6.33	7.34	<D.L.	3.75	<D.L.	3.95	6.1	9.41	<D.L.	<D.L.	5.89	3.95
Sep-11																												
Min	0.0	0.0	11.0	9.1	8.9	6.9	7.0	5.7	5.3	6.2	0.0	0.0	8.3	4.4	0.0	0.0	6.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0
Max	0.0	7.6	13.5	15.9	11.0	10.5	9.3	9.2	10.2	8.0	3.8	8.4	8.9	9.7	0.0	5.5	9.4	8.5	6.3	5.3	0.0	6.0	6.1	9.4	0.0	2.4	5.9	7.7
Avg	0.0	3.5	12.3	10.8	10.0	8.6	8.1	7.3	7.8	7.0	1.9	5.1	8.6	6.1	0.0	4.0	7.9	7.0	3.2	3.0	0.0	3.4	3.1	5.8	0.0	1.1	5.8	3.9

TABLE 6c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6c
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		17.5		14.3		15.3		13.7		16.9		19.0		16.3		23.2		10.3		
Jan-10	18	18	18	17	15	15	19	18	21	14	27	14	25	18	21	21	9.8	8.8		
Oct-10	9.01	9.58	13.9	10.6	4.82	4.49	6.49	6.58	15.8	15.2	13	12	24.3	18.9	23.5	21.1	7.06	6.97		
May-11	23.7	18.7	23.9	17.5	20.9	14.6	23.8	17.8	27.8	18.0	17.6	16.5	28.8	20.2	30.7	23.7	19.8	12.7	13.3	11.9
Sep-11	17.4	16.9	17.3	15.5	14.3	11.9	15.2	15.0	14.9	14.7	16.3	15.1	20.7	18.1	23.0	23.4	9.8	9.4	11.3	10.8
Min	9.0	9.6	13.9	10.6	4.8	4.5	6.5	6.6	14.9	14.0	13.0	12.0	20.7	16.3	21.0	21.0	7.1	7.0	11.3	10.8
Max	23.7	18.7	23.9	17.5	20.9	15.3	23.8	18.0	27.8	18.0	27.0	19.0	28.8	20.2	30.7	23.7	19.8	12.7	13.3	11.9
Avg	17.0	16.1	18.3	15.0	13.8	12.3	16.1	14.2	19.9	15.8	18.5	15.3	24.7	18.3	24.6	22.5	11.6	9.6	12.3	11.4

Notes:

Data in µg/L

NMAC WQCC Groundwater Limit: 1000

USEPA Drinking Water MCL: 2000

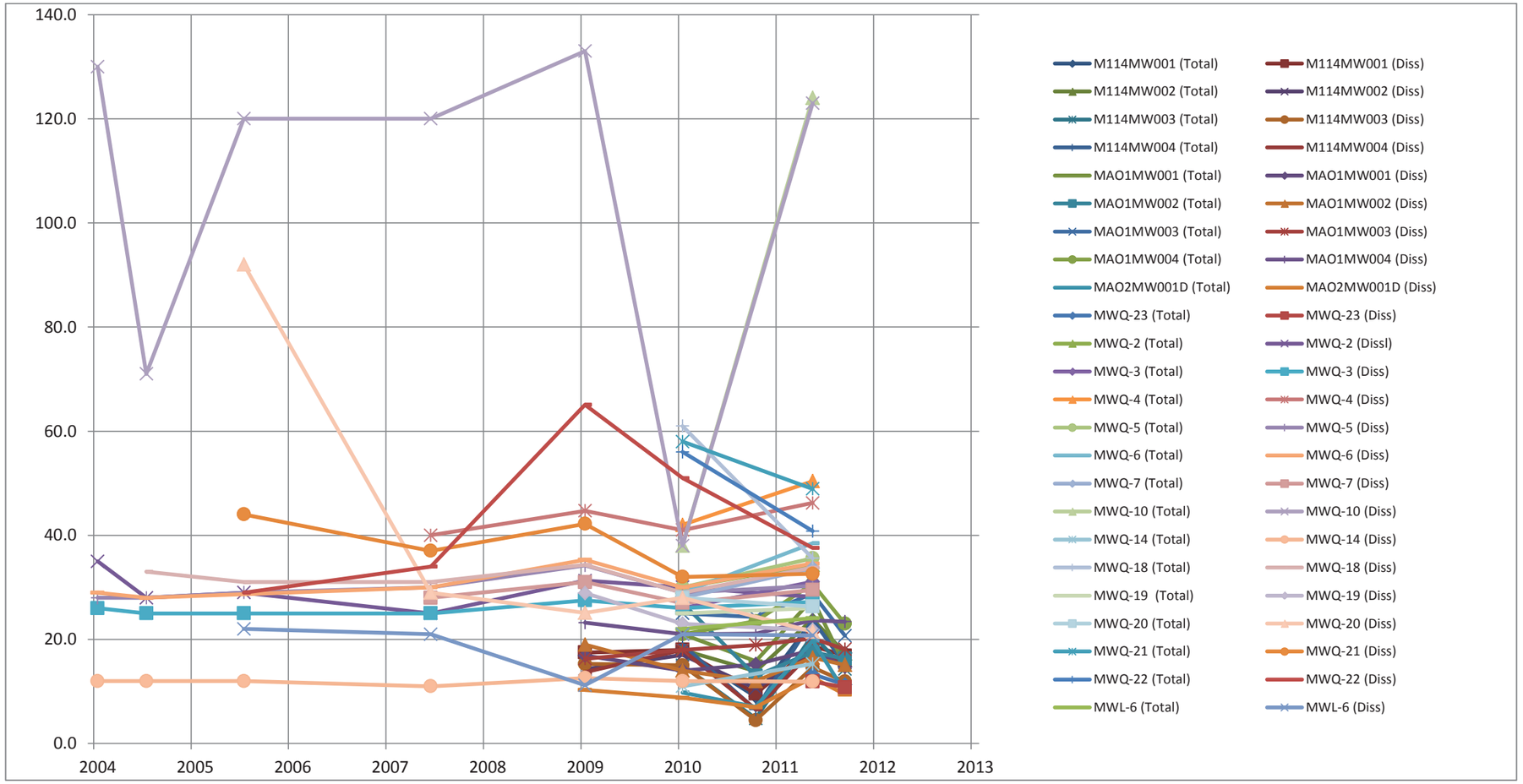
NMED SSL Tapwater Screening Level: 7300

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		35		26				28		29				130		12												
Jul-04		28		25				28		28				71		12		33										
Jul-05		29		25				29						120		12		31				92		44		29		22
Jun-07		25		25		40		30		30		28		120		11		31				29		37		34		21
Jan-09		31.3		27.5		44.7		34.2		35.3		31.0		133		12.6		34.3		28.9		25.1		42.2		65.1		11.2
Jan-10	30	30	26	26	42	41.0	30	29	29	30	28	27	38	38	11	12	61	29	25	23	28	28	58	32	56	51	22	21
Oct-10																												
May-11	34.3	28.2	31.1	27.2	50.4	46.2	35.6	30.3	38.5	34.6	33.7	29.5	124	123	15.3	11.9	35.6	33.8	26.0	21.8	26.3	21.5	48.9	32.6	40.8	37.6	24.1	20.8
Sep-11																												
Min	30.0	25.0	26.0	25.0	42.0	40.0	30.0	28.0	29.0	28.0	28.0	27.0	38.0	38.0	11.0	11.0	35.6	29.0	25.0	21.8	26.3	21.5	48.9	32.0	40.8	29.0	22.0	11.2
Max	34.3	35.0	31.1	27.5	50.4	46.2	35.6	34.2	38.5	35.3	33.7	31.0	124.0	133.0	15.3	12.6	61.0	34.3	26.0	28.9	28.0	92.0	58.0	44.0	56.0	65.1	24.1	22.0
Avg	32.2	29.5	28.6	26.0	46.2	43.0	32.8	29.8	33.8	31.2	30.9	28.9	81.0	105.0	13.2	11.9	48.3	32.0	25.5	24.6	27.2	39.1	53.5	37.6	48.4	43.3	23.1	19.2

TABLE 6d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6d
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6e
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-11																				
Jan-09				0.054		0.051														
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Data in µg/L

NMAC WQCC Groundwater Limit: ---

USEPA Drinking Water MCL: 4

NMED SSL Tapwater Screening Level: 73

Red indicates exceedance

Blank cells indicate no data

Due to a preponderance of no detects trends are not plotted

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		0.33		<D.L.				<D.L.		<D.L.				<D.L.		<D.L.												
Jul-04		<D.L.		<D.L.				<D.L.		<D.L.				<D.L.		<D.L.		<D.L.										
Jul-05		<D.L.		<D.L.				<D.L.						<D.L.		<D.L.		<D.L.				<D.L.		<D.L.		<D.L.		<D.L.
Jun-11																												
Jan-09		0.044		0.051						<D.L.		<D.L.		<D.L.		0.041		<D.L.		0.048		<D.L.		<D.L.		<D.L.		<D.L.
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Avg	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

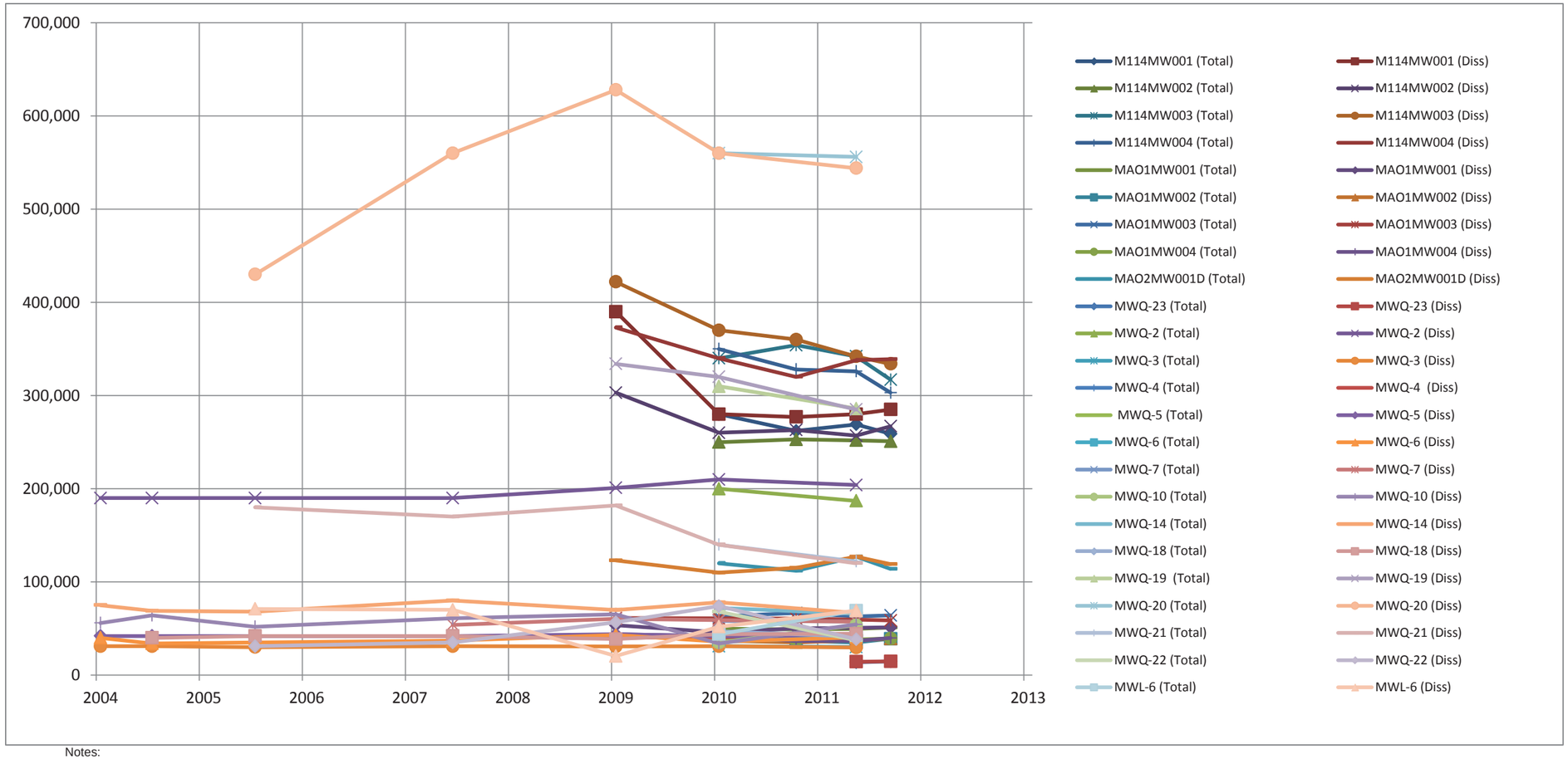
TABLE 6f
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		390,000		303,000		422,000		373,000		53,500		44,000		61,200		44,000		123,000		
Jan-10	280,000	280,000	250,000	260,000	340,000	370,000	350,000	340,000	50,000	46,000	41,000	37,000	63,000	61,000	41,000	42,000	120,000	110,000		
Oct-10	262,000	277,000	253,000	263,000	354,000	360,000	328,000	320,000	49,100	50,300	36,900	35,200	66,600	60,700	37,400	36,600	111,900	115,000		
May-11	269,000	280,000	252,000	257,000	342,000	342,000	326,000	338,000	49,700	50,800	35,100	37,400	63,100	59,600	38,200	36,800	127,000	127,000	13,600	14,400
Sep-11	259,000	285,000	251,000	267,000	317,000	334,000	303,000	339,000	51,000	51,300	39,000	39,100	64,100	58,600	39,300	39,900	114,000	119,000	14,700	14,700
Min	259000	277000	250000	257000	317000	334000	303000	320000	49100	46000	35100	35200	63000	58600	37400	36600	111900	110000	13600	14400
Max	280000	390000	253000	303000	354000	422000	350000	373000	51000	53500	41000	44000	66600	61200	41000	44000	127000	127000	14700	14700
Avg	267500	302400	251500	270000	338250	365600	326750	342000	49950	50380	38000	38540	64200	60220	38975	39860	118225	118800	14150	14550

Notes:
Data in µg/L
NMAC WQCC Groundwater Limit: ---
USEPA Drinking Water MCL: ---
NMED SSL Tapwater Screening Level: ---
Red indicates exceedance
Blank cells indicate no data

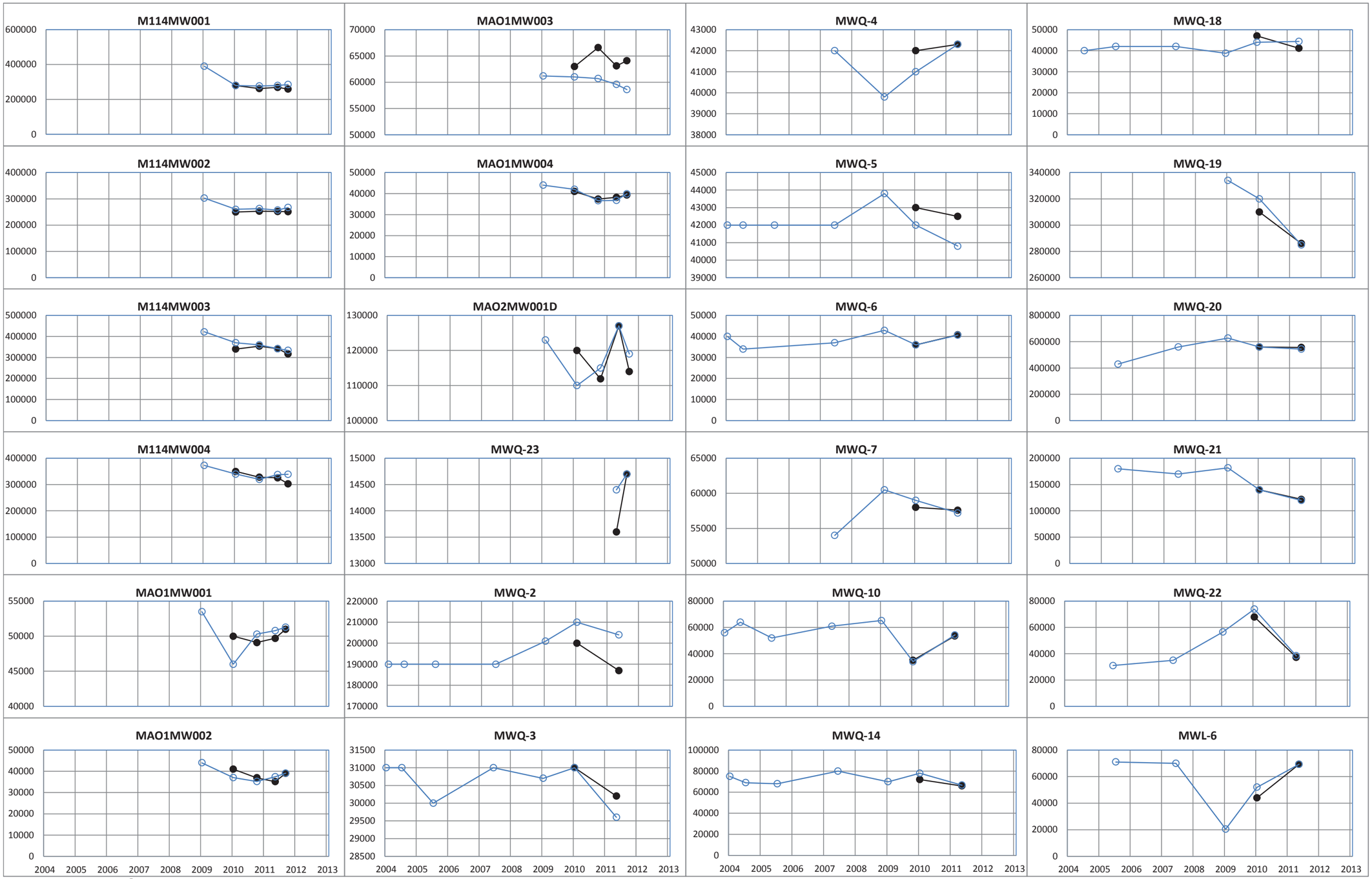
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		190,000		31,000				42,000		40,000				56,000		75,000												
Jul-04		190,000		31,000				42,000		34,000				64,000		69,000		40,000										
Jul-05		190,000		30,000				42,000						52,000		68,000		42,000				430,000		180,000		31,000		71,000
Jun-07		190,000		31,000		42,000		42,000		37,000		54,000		61,000		80,000		42,000				560,000		170,000		35,000		70,000
Jan-09		201,000		30,700		39,800		43,800		42,900		60,500		65,300		69,900		38,800		334,000		628,000		182,000		56,600		20,500
Jan-10	200,000	210,000	31,000	31,000	42,000	41,000	43,000	42,000	36,000	36,000	58,000	59,000	35,000	34,000	72,000	78,000	47,000	44,000	310,000	320,000	560,000	560,000	140,000	140,000	68,000	74,000	44,000	52,000
Oct-10																												
May-11	187,000	204,000	30,200	29,600	42,300	42,300	42,500	40,800	40,800	40,600	57,600	57,200	53,600	54,300	65,900	66,700	41,200	44,400	286,000	285,000	556,000	544,000	122,000	120,000	37,300	38,500	69,200	69,200
Sep-11																												
Min	187000	190000	30200	29600	42000	39800	42500	40800	36000	34000	57600	54000	35000	34000	65900	66700	41200	38800	286000	285000	556000	430000	122000	120000	37300	31000	44000	20500
Max	200000	210000	31000	31000	42300	42300	43000	43800	40800	42900	58000	60500	53600	65300	72000	80000	47000	44400	310000	334000	560000	628000	140000	182000	68000	74000	69200	71000
Avg	193500	196429	30600	30614	42150	41275	42750	42086	38400	38417	57800	57675	44300	55229	68950	72371	44100	41867	298000	313000	558000	544400	131000	158400	52650	47020	56600	56540

TABLE 6f
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6f
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6g
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		2.80		**5.30**		0.13		**5.60**		0.92		3.20		0.16		1.40				
Jan-10	1.0	1.1	0.95	0.96	1.2	1.4	1.3	1.0	0.47	<D.L.	<D.L.	<D.L.	0.53	0.50	<D.L.	<D.L.	0.69	0.58		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	0.31	0.88	<D.L.	0.69	<D.L.	0.81	0.35	0.90	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11	1.16	1.19	1.37	1.12	1.53	1.23	1.58	1.40	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	1.2	2.8	1.4	5.3	1.5	1.4	1.6	5.6	0.5	0.9	0.0	3.2	0.5	0.5	0.0	1.4	0.7	0.6	0.0	0.0
Avg	0.6	1.2	0.6	1.6	0.7	0.7	0.8	1.8	0.1	0.2	0.0	0.6	0.1	0.1	0.0	0.3	0.2	0.1	0.0	0.0

Notes:

Data in µg/L

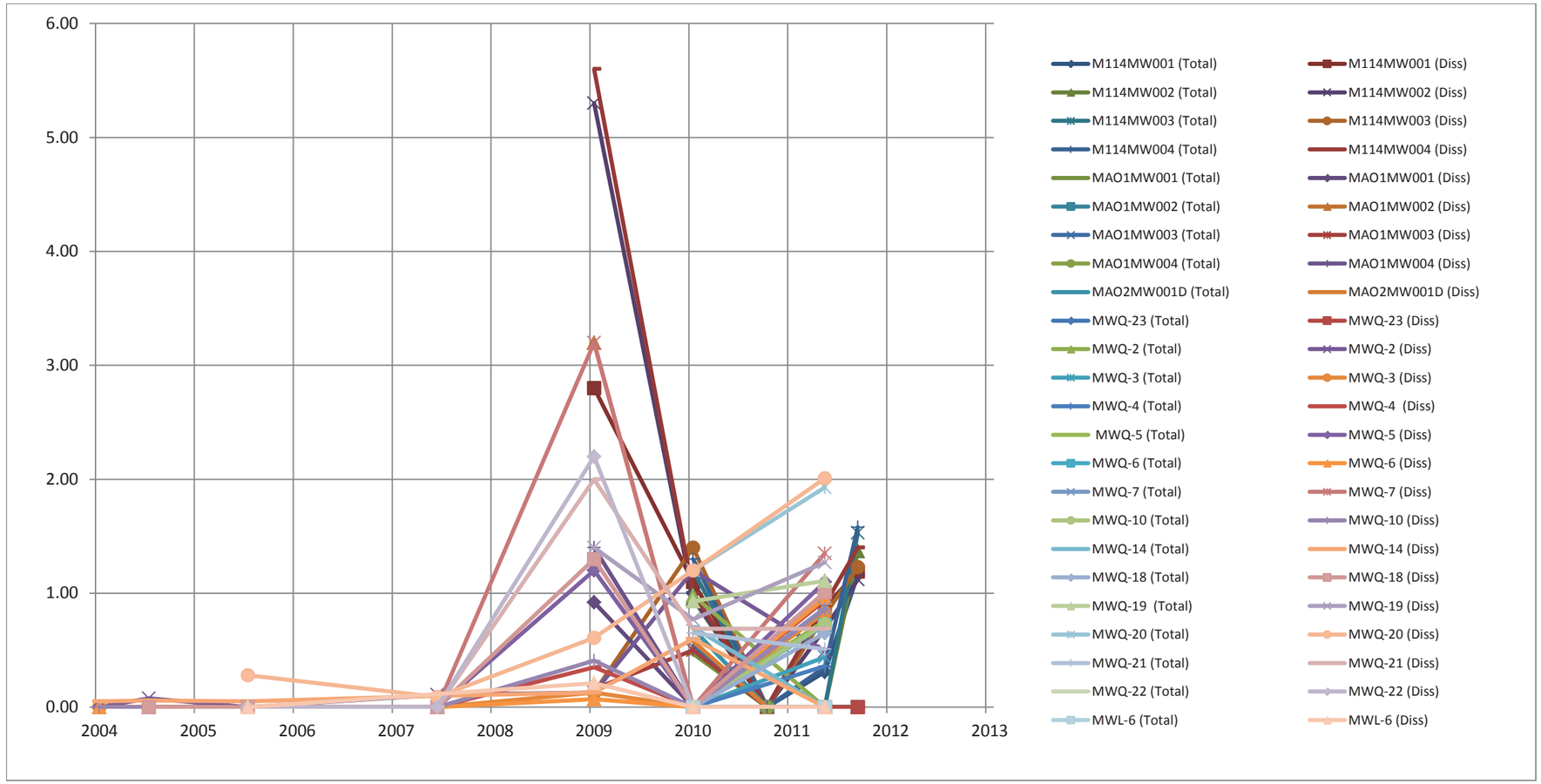
NMAC WQCC Groundwater Limit:	10
USEPA Drinking Water MCL:	5
NMED SSL Tapwater Screening Level:	18.3

Red indicates exceedance

Blank cells indicate no data

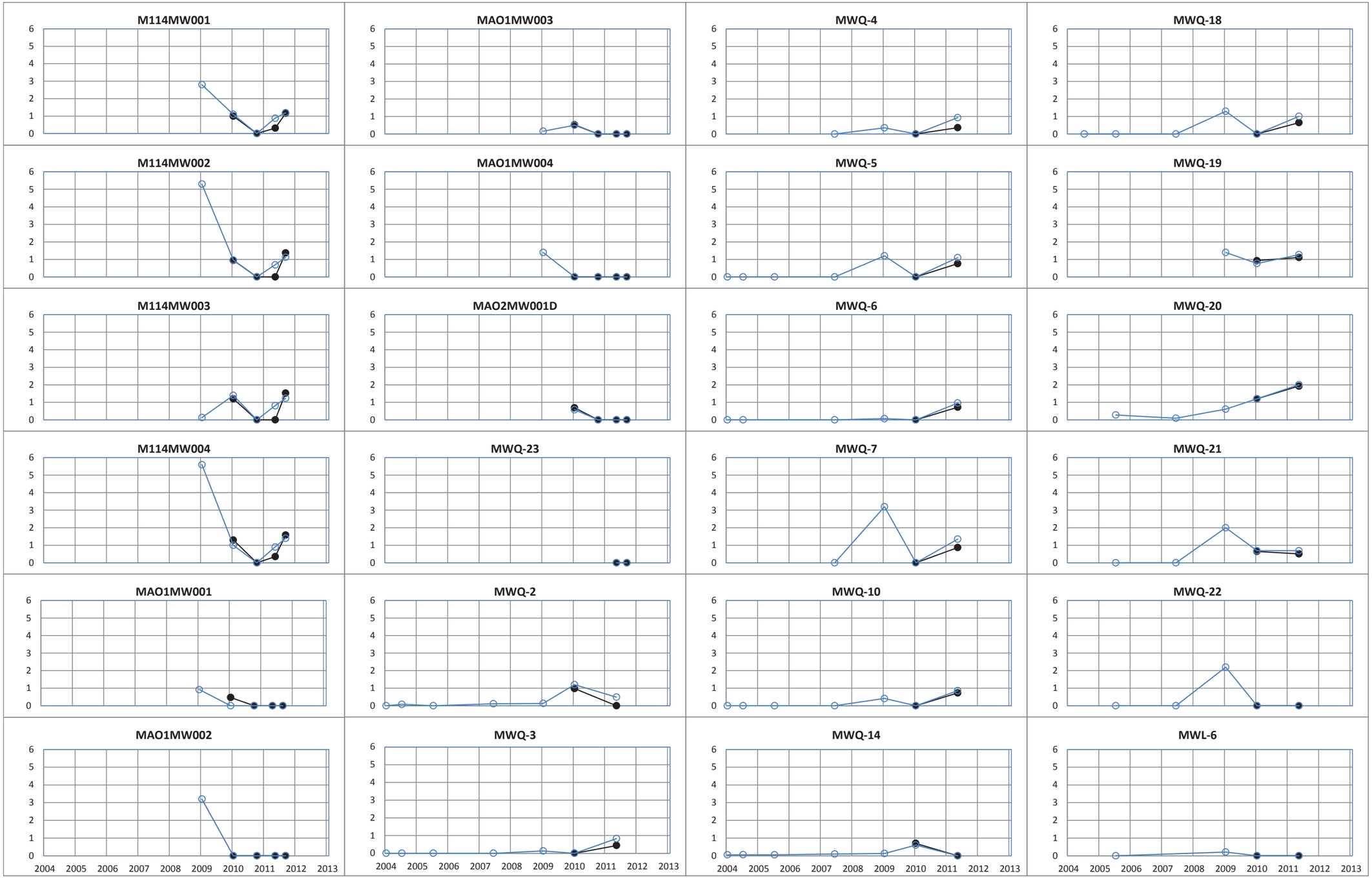
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		<D.L.		<D.L.				<D.L.		<D.L.				<D.L.		0.053												
Jul-04		0.078		<D.L.				<D.L.		<D.L.				<D.L.		0.059		<D.L.										
Jul-05		<D.L.		<D.L.				<D.L.						<D.L.		0.053		<D.L.				0.28		<D.L.		<D.L.		<D.L.
Jun-07		0.11		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		0.10		<D.L.				0.091		<D.L.		<D.L.		
Jan-09		0.13		0.13		0.35		1.20		0.07		3.20		0.41		0.13		1.30		1.40		0.61		2.00		2.20		0.21
Jan-10	0.98	1.2	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	0.70	0.60	<D.L.	<D.L.	0.93	0.77	1.2	1.2	0.65	0.69	<D.L.	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	0.49	0.44	0.83	0.36	0.94	0.76	1.1	0.72	0.96	0.87	1.35	0.73	0.86	<D.L.	<D.L.	0.65	1.01	1.11	1.27	1.93	2.01	0.51	0.69	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.8	1.2	0.1	0.5	0.0	0.0	0.0	0.0	0.0
Max	1.0	1.2	0.4	0.8	0.4	0.9	0.8	1.2	0.7	1.0	0.9	3.2	0.7	0.9	0.7	0.6	0.7	1.3	1.1	1.4	1.9	2.0	0.7	2.0	0.0	2.2	0.0	0.2
Avg	0.5	0.3	0.2	0.1	0.2	0.3	0.4	0.3	0.4	0.2	0.4	1.1	0.4	0.2	0.4	0.1	0.3	0.4	1.0	1.1	1.6	0.8	0.6	0.7	0.0	0.4	0.0	0.1

TABLE 6g
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES NEW MEXICO



Notes:
Data in µg/L

TABLE 6g
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

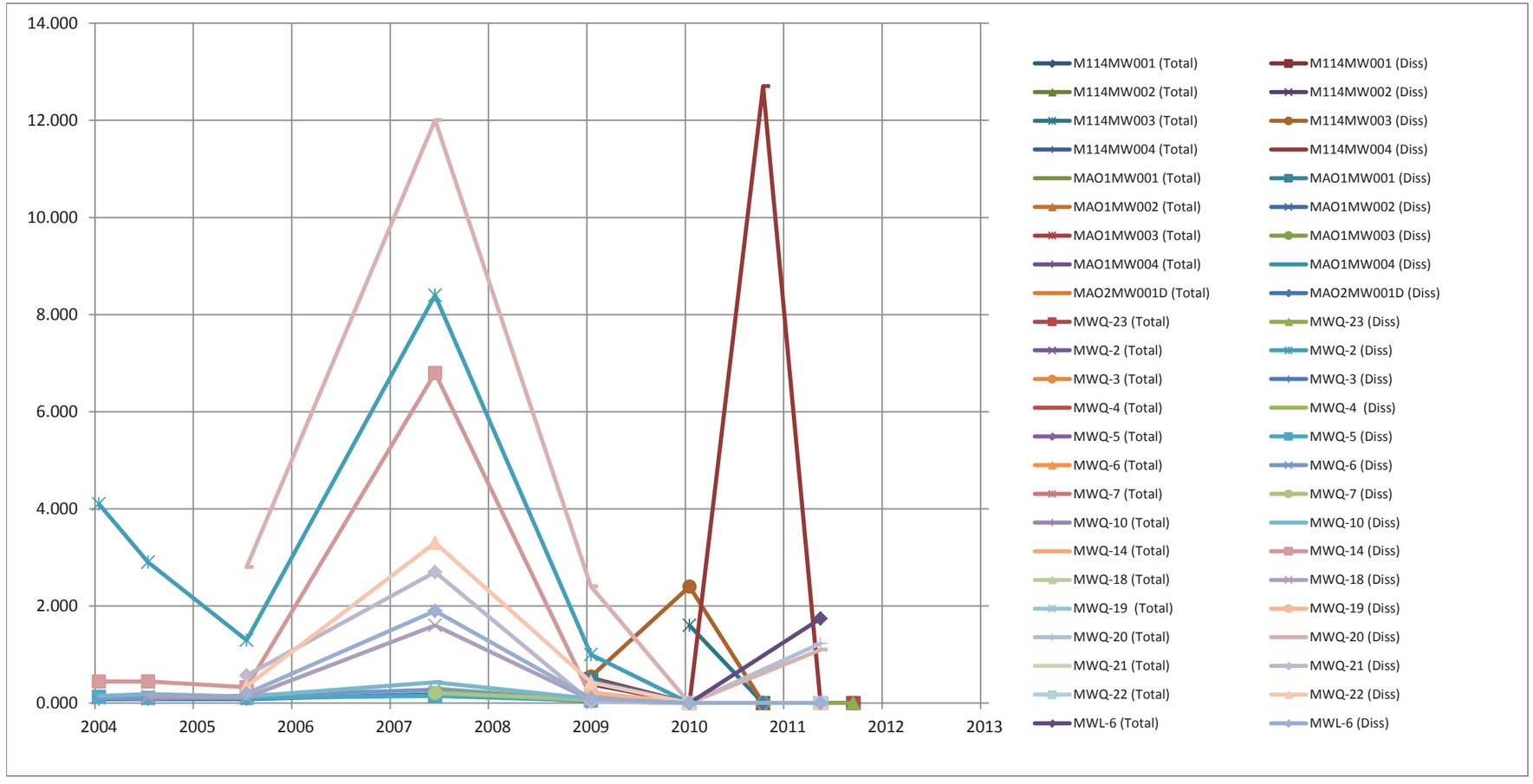
TABLE 6h
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		0.50		0.39		0.55		0.52		0.48		0.18		0.077		0.12		0.46		
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	1.6	2.4	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	12.7	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.5	0.0	0.4	1.6	2.4	0.0	12.7	0.0	0.5	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.5	0.0	0.0
Avg	0.0	0.1	0.0	0.1	0.4	0.6	0.0	2.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

Notes:
Data in µg/L
NMAC WQCC Groundwater Limit: 50
USEPA Drinking Water MCL: ---
NMED SSL Tapwater Screening Level: ---
Red indicates exceedance
Blank cells indicate no data

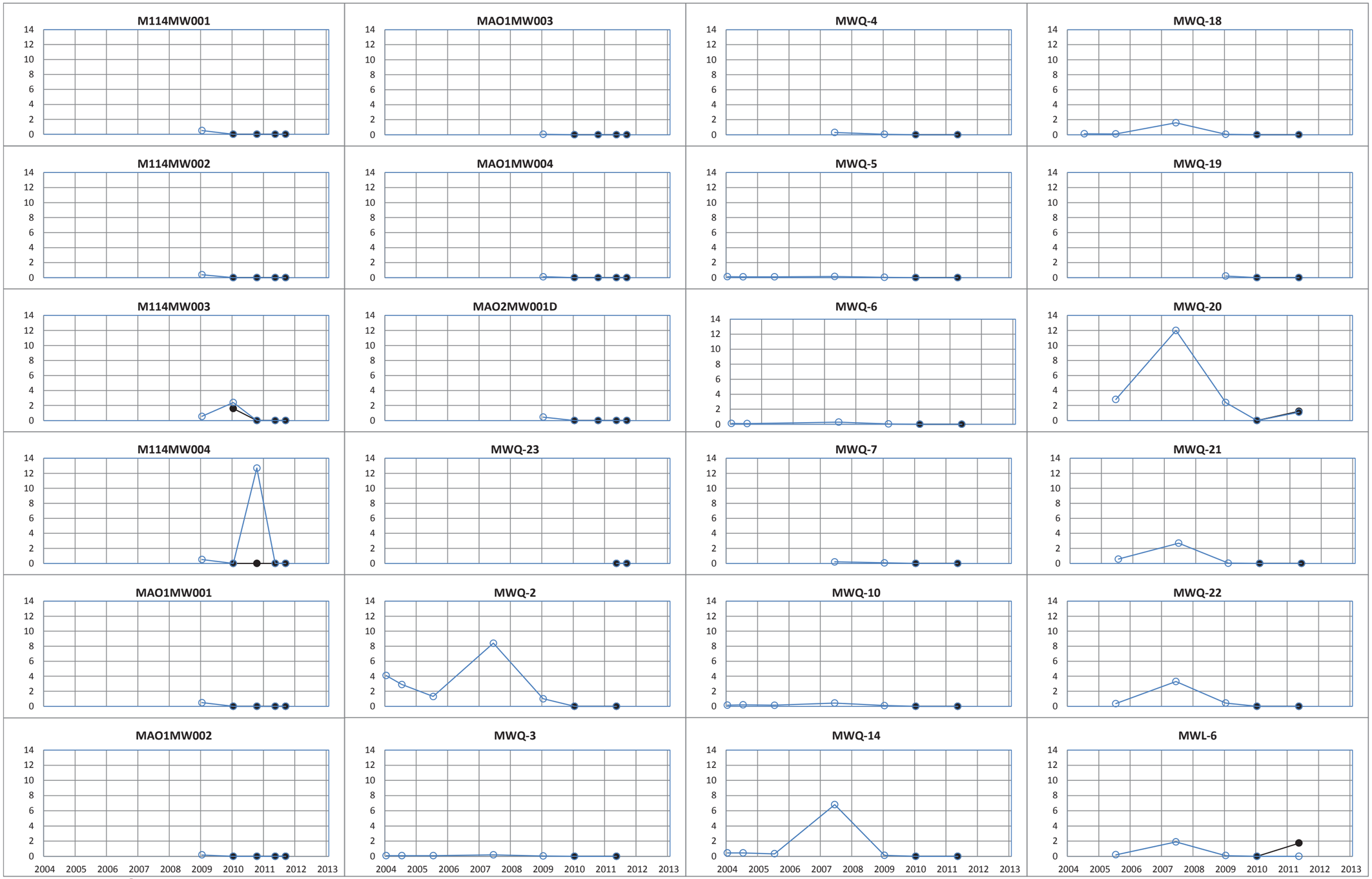
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		4.1		0.084				0.13		0.11				0.15		0.45												
Jul-04		2.9		0.082				0.11		0.09				0.19		0.45		0.14										
Jul-05		1.3		0.082				0.11						0.14		0.33		0.120				2.80		0.57		0.35		0.20
Jun-07		8.4		0.19		0.30		0.15		0.28		0.21		0.43		6.8		1.6				12		2.7		3.3		1.9
Jan-09		1.0		0.043		0.07		0.052		0.047		0.072		0.091		0.13		0.071		0.220		2.4		0.03		0.43		0.097
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	1.23	1.10	<D.L.	<D.L.	<D.L.	<D.L.	1.74	<D.L.
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	8.4	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.4	0.0	6.8	0.0	1.6	0.0	0.2	1.2	12.0	0.0	2.7	0.0	3.3	1.7	1.9
Avg	0.0	2.5	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	1.2	0.0	0.3	0.0	0.1	0.6	3.7	0.0	0.7	0.0	0.8	0.9	0.4

TABLE 6h
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6h
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6h
COLBALT

TABLE 6i
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		3.00		4.30		3.60		7.80		2.20		3.50		1.90		2.20		1.20		
Jan-10	2.60	2.40	4.20	3.00	2.70	2.50	2.10	2.20	1.80	0.87	3.60	2.10	1.40	0.84	1.40	1.30	<D.L.	<D.L.		
Oct-10	4.27	4.27	7.10	6.04	3.52	3.20	4.03	2.04	2.43	2.72	2.93	2.11	17.10	6.68	2.81	1.20	1.71	1.74		
May-11	7.48	5.00	8.55	5.75	6.04	3.89	5.33	4.02	8.54	2.24	3.05	2.09	4.46	2.19	5.09	1.30	2.52	1.46	<D.L.	<D.L.
Sep-11	8.46	4.17	4.92	3.73	2.88	1.33	4.29	2.38	1.06	<D.L.	2.47	1.12	1.96	<D.L.	1.21	<D.L.	1.31	<D.L.	<D.L.	<D.L.
Min	2.6	2.4	4.2	3.0	2.7	1.3	2.1	2.0	1.1	0.0	2.5	1.1	1.4	0.0	1.2	0.0	0.0	0.0	0.0	0.0
Max	8.5	5.0	8.6	6.0	6.0	3.9	5.3	7.8	8.5	2.7	3.6	3.5	17.1	6.7	5.1	2.2	2.5	1.7	0.0	0.0
Avg	5.7	3.8	6.2	4.6	3.8	2.9	3.9	3.7	3.5	1.6	3.0	2.2	6.2	2.3	2.6	1.2	1.4	0.9	0.0	0.0

Notes:

Data in µg/L

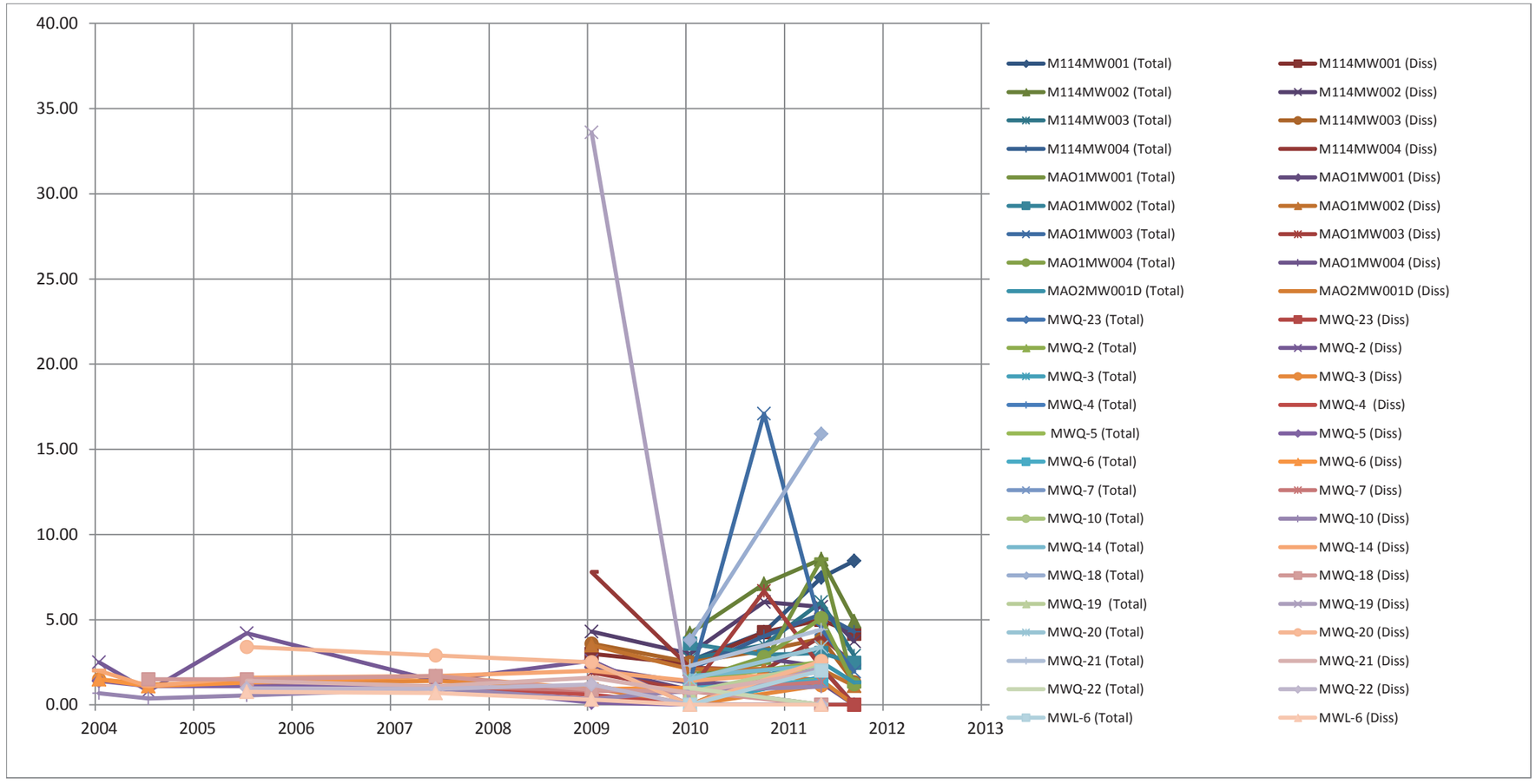
NMAC WQCC Groundwater Limit:	50
USEPA Drinking Water MCL:	100
NMED SSL Tapwater Screening Level:	---

Red indicates exceedance

Blank cells indicate no data

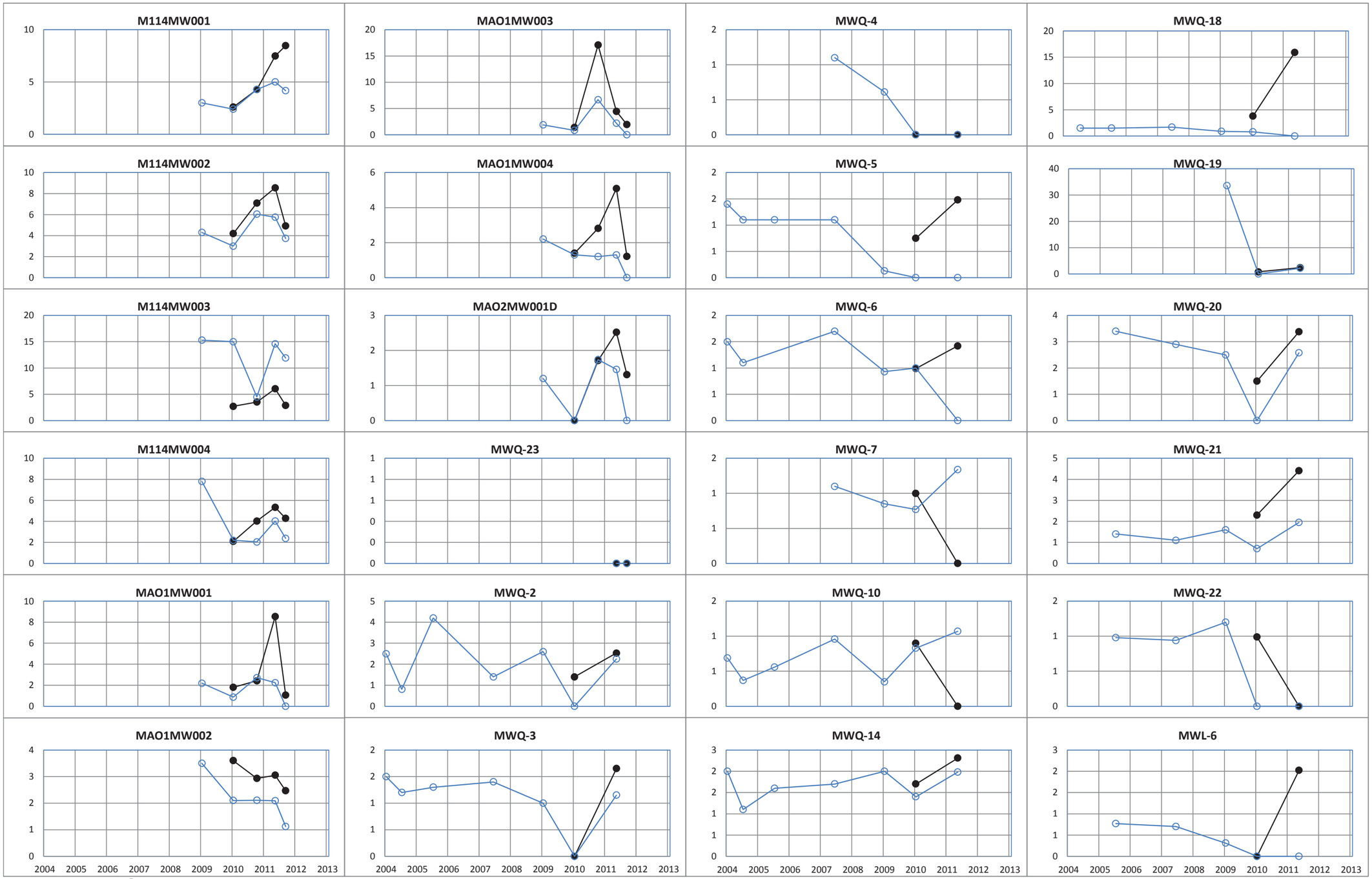
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		2.50		1.50				1.40		1.50				0.69		2.00												
Jul-04		0.81		1.20				1.10		1.10				0.37		1.10		1.50										
Jul-05		4.20		1.30				1.10						0.56		1.60		1.50				3.40		1.40		0.98		0.77
Jun-07		1.40		1.40		1.10		1.10		1.70		1.10		0.96		1.70		1.70				2.90		1.10		0.94		0.70
Jan-09		2.60		1.00		0.61		0.13		0.93		0.85		0.35		2.00		0.88		33.60		2.50		1.60		1.20		0.31
Jan-10	1.40	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	0.75	<D.L.	0.99	1.00	1.00	0.77	0.90	0.83	1.70	1.40	3.80	0.80	0.77	<D.L.	1.50	<D.L.	2.30	0.70	0.99	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	2.53	2.25	1.65	1.15	<D.L.	<D.L.	1.48	<D.L.	1.42	<D.L.	<D.L.	1.34	<D.L.	1.07	2.31	1.98	15.90	<D.L.	2.38	2.18	3.38	2.58	4.41	1.95	<D.L.	<D.L.	2.02	<D.L.
Sep-11																												
Min	1.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	0.0	0.8	0.0	0.4	1.7	1.1	3.8	0.0	0.8	0.0	1.5	0.0	2.3	0.7	0.0	0.0	0.0	0.0
Max	2.5	4.2	1.7	1.5	0.0	1.1	1.5	1.4	1.4	1.7	1.0	1.3	0.9	1.1	2.3	2.0	15.9	1.7	2.4	33.6	3.4	3.4	4.4	2.0	1.0	1.2	2.0	0.8
Avg	2.0	2.0	0.8	1.1	0.0	0.4	1.1	0.7	1.2	1.0	0.5	1.0	0.5	0.7	2.0	1.7	9.9	1.1	1.6	11.9	2.4	2.3	3.4	1.4	0.5	0.6	1.0	0.4

TABLE 6i
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6i
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6i
CHROMIUM

TABLE 6j
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09																				
Jan-10	21	7.0	47	7.0	9.6	6.1	7.0	10.0	5.2	7.8	13.0	6.4	8.3	<D.L.	<D.L.		<D.L.	<D.L.		
Oct-10	28	3	8	20	21	10	12	<D.L.	6		6		6	6	15	7	14	<D.L.		
May-11	<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		18		7		<D.L.		<D.L.	
Sep-11	<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.	
Min	0.0	3.0	0.0	7.0	0.0	6.1	0.0	0.0	0.0	7.8	0.0	6.4	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0
Max	28.0	7.0	47.0	20.0	21.0	10.0	12.0	10.0	6.0	7.8	13.0	6.4	18.0	6.0	15.0	7.0	14.0	0.0	0.0	0.0
Avg	12.3	5.0	13.8	13.5	7.7	8.1	4.8	5.0	2.8	7.8	4.8	6.4	8.1	3.0	5.5	7.0	3.5	0.0	0.0	0.0

Notes:
Data in µg/L

NMAC WQCC Groundwater Limit:	---
USEPA Drinking Water MCL:	100
NMED SSL Tapwater Screening Level:	110

Red indicates exceedance
Blank cells indicate no data

Due to a preponderance of no detects trends are not plotted

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																												
Jul-04																												
Jul-05																												
Jun-07																												
Jan-09																												
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	7.0	7.0	<D.L.	<D.L.	4.5	<D.L.	<D.L.	4.5	7.8	7.8	7.8	7.0	26.0	4.4	13.0	6.4	<D.L.	<D.L.	22.0	6.4	6.4	4.5	7.0	7.0
Oct-10																												
May-11	3		<D.L.		<D.L.		<D.L.		<D.L.		<D.L.		5.00		<D.L.		<D.L.		<D.L.		<D.L.		32.0		<D.L.		<D.L.	
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	4.5	5.0	7.8	0.0	7.0	0.0	4.4	0.0	6.4	0.0	0.0	22.0	6.4	0.0	4.5	0.0	7.0
Max	3.0	0.0	0.0	0.0	7.0	7.0	0.0	0.0	4.5	0.0	0.0	4.5	7.8	7.8	7.8	7.0	26.0	4.4	13.0	6.4	0.0	0.0	32.0	6.4	6.4	4.5	7.0	7.0
Avg	1.5	0.0	0.0	0.0	3.5	7.0	0.0	0.0	2.3	0.0	0.0	4.5	6.4	7.8	3.9	7.0	13.0	4.4	6.5	6.4	0.0	0.0	27.0	6.4	3.2	4.5	3.5	7.0

TABLE 6k
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		6.30		5.90		5.70		5.8		2.7		2.3		2.2		1.9		33.8		
Jan-10	1.7	3.7	<D.L.	2.50	<D.L.	2.90	1.9	1.4	1.6	2.8	2.8	2.5	2.2	2.5	2.1	2.0	4.6	4.6		
Oct-10	14.1	<D.L.	19.5	24.2	17.3	20	12.7	12.6	11.6	12.3	9.79	9.72	14.5	13.2	8.95	8.47	16.4	17.1		
May-11	22.5	21.0	29.8	25.1	23.7	22.0	36.9	35.2	14.3	13.4	11.0	11.6	44.0	17.7	87.7	23.0	226.0	116.0	4.95	5.49
Sep-11	15.8	15.6	13.8	15.8	13.3	15.1	13.8	17.6	10.6	11.7	10.2	10.6	13.7	12.7	8.2	9.6	25.3	23.8	5.68	5.1
Min	1.7	0.0	0.0	2.5	0.0	2.9	1.9	1.4	1.6	2.7	2.8	2.3	2.2	2.2	2.1	1.9	4.6	4.6	5.0	5.1
Max	22.5	21.0	29.8	25.1	23.7	22.0	36.9	35.2	14.3	13.4	11.0	11.6	44.0	17.7	87.7	23.0	226.0	116.0	5.7	5.5
Avg	13.5	9.3	15.8	14.7	13.6	13.1	16.3	14.5	9.5	8.6	8.4	7.3	18.6	9.7	26.7	9.0	68.1	39.1	5.3	5.3

Notes:

Data in µg/L

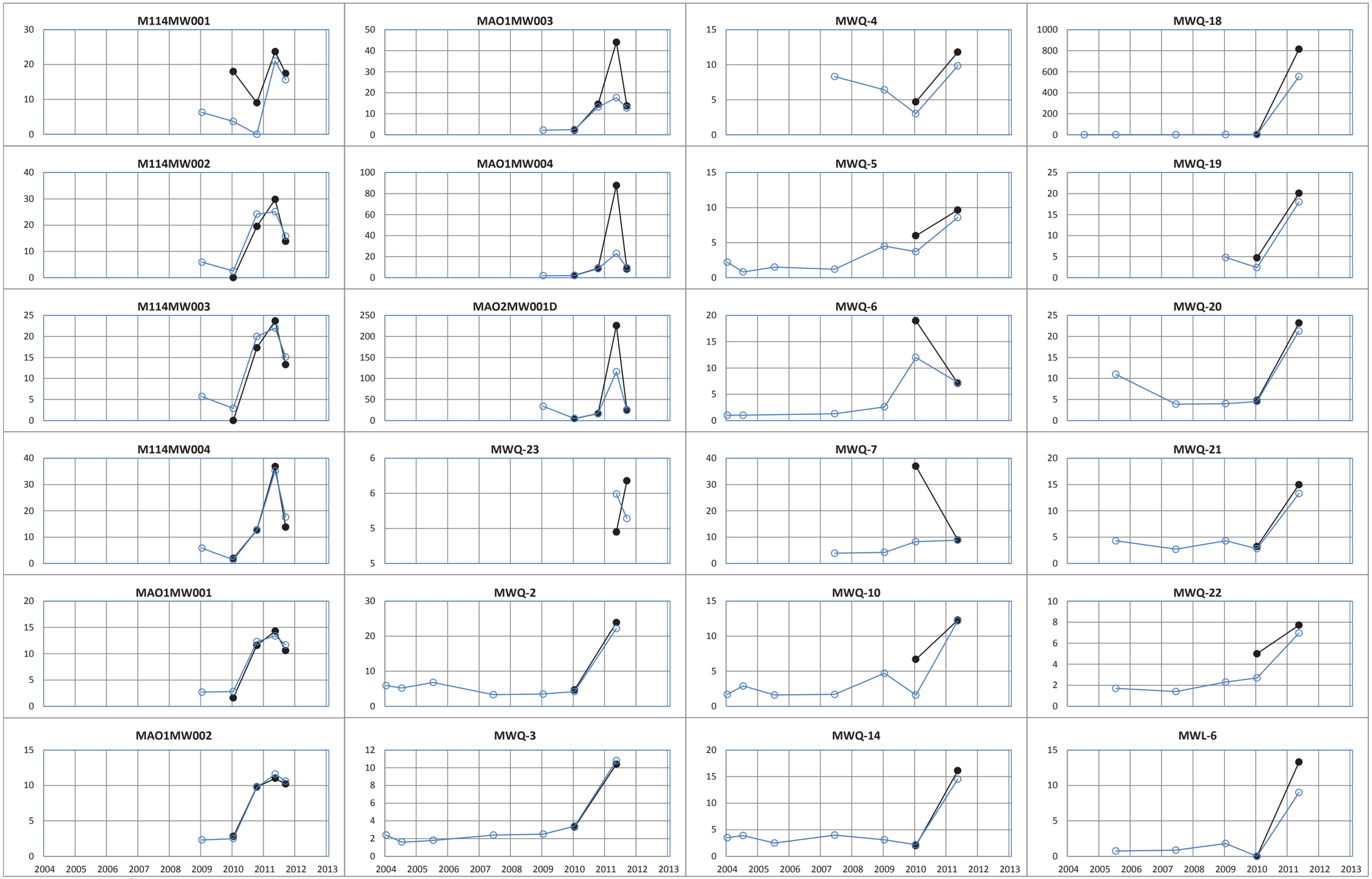
NMAC WQCC Groundwater Limit:	1000
USEPA Drinking Water MCL:	1000
NMED SSL Tapwater Screening Level:	1460

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		5.9		2.4				2.2		1				1.7		3.5												
Jul-04		5.2		1.6				0.82		1				2.9		3.9		0.85										
Jul-05		6.8		1.8				1.5						1.6		2.5		0.58				11		4.3		1.7		0.76
Jun-07		3.3		2.4		8.3		1.2		1.3		3.9		1.7		4.0		0.9				3.9		2.7		1.4		0.87
Jan-09		3.5		2.5		6.4		4.5		2.6		4.2		4.7		3.1		2.2		4.8		4.0		4.3		2.3		1.8
Jan-10	4.7	4.2	3.3	3.4	4.7	3.0	6.0	3.7	19	12	37	8.3	6.7	1.6	2.0	2.2	3.8	2.3	4.7	2.4	4.8	4.5	3.2	2.8	5.0	2.7	<D.L.	<D.L.
Oct-10																												
May-11	23.9	22.2	10.4	10.8	11.8	9.8	9.6	8.6	7.09	7.2	8.9	8.8	12.3	12.2	16.1	14.5	814.0	554.0	20.1	18.0	23.2	21.3	15.0	13.3	7.7	6.97	13.3	9.01
Sep-11																												
Min	4.7	3.3	3.3	1.6	4.7	3.0	6.0	0.8	7.1	1.0	8.9	3.9	6.7	1.6	2.0	2.2	3.8	0.6	4.7	2.4	4.8	3.9	3.2	2.7	5.0	1.4	0.0	0.0
Max	23.9	22.2	10.4	10.8	11.8	9.8	9.6	8.6	19.0	12.0	37.0	8.8	12.3	12.2	16.1	14.5	814.0	554.0	20.1	18.0	23.2	21.3	15.0	13.3	7.7	7.0	13.3	9.0
Avg	14.3	7.3	6.9	3.6	8.3	6.9	7.8	3.2	13.0	4.2	23.0	6.3	9.5	3.8	9.1	4.8	408.9	93.5	12.4	8.4	14.0	8.9	9.1	5.5	6.4	3.0	6.7	2.5

TABLE 6k
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6l
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09																				
Jan-10	<D.L.	<D.L.	280	<D.L.	140	<D.L.	<D.L.		280		**480**	<D.L.	210	<D.L.	<D.L.	<D.L.	26	<D.L.		
Oct-10	<D.L.	<D.L.	**337**	<D.L.	82.6	<D.L.	<D.L.	<D.L.	102	65.2	38.5	<D.L.	274	57.9	179	39.2	<D.L.	<D.L.		
May-11	79.9	<D.L.	160	<D.L.	130	<D.L.	<D.L.	<D.L.	204	46.6	<D.L.	<D.L.	116	<D.L.	176	<D.L.	<D.L.	<D.L.	43.8	<D.L.
Sep-11	47.1	<D.L.	60.5	<D.L.	162	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	60.5	0.0	82.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	79.9	0.0	337.0	0.0	162.0	0.0	0.0	0.0	280.0	65.2	480.0	0.0	274.0	57.9	179.0	39.2	26.0	0.0	43.8	0.0
Avg	31.8	0.0	209.4	0.0	128.7	0.0	0.0	0.0	146.5	37.3	129.6	0.0	150.0	14.5	88.8	9.8	6.5	0.0	21.9	0.0

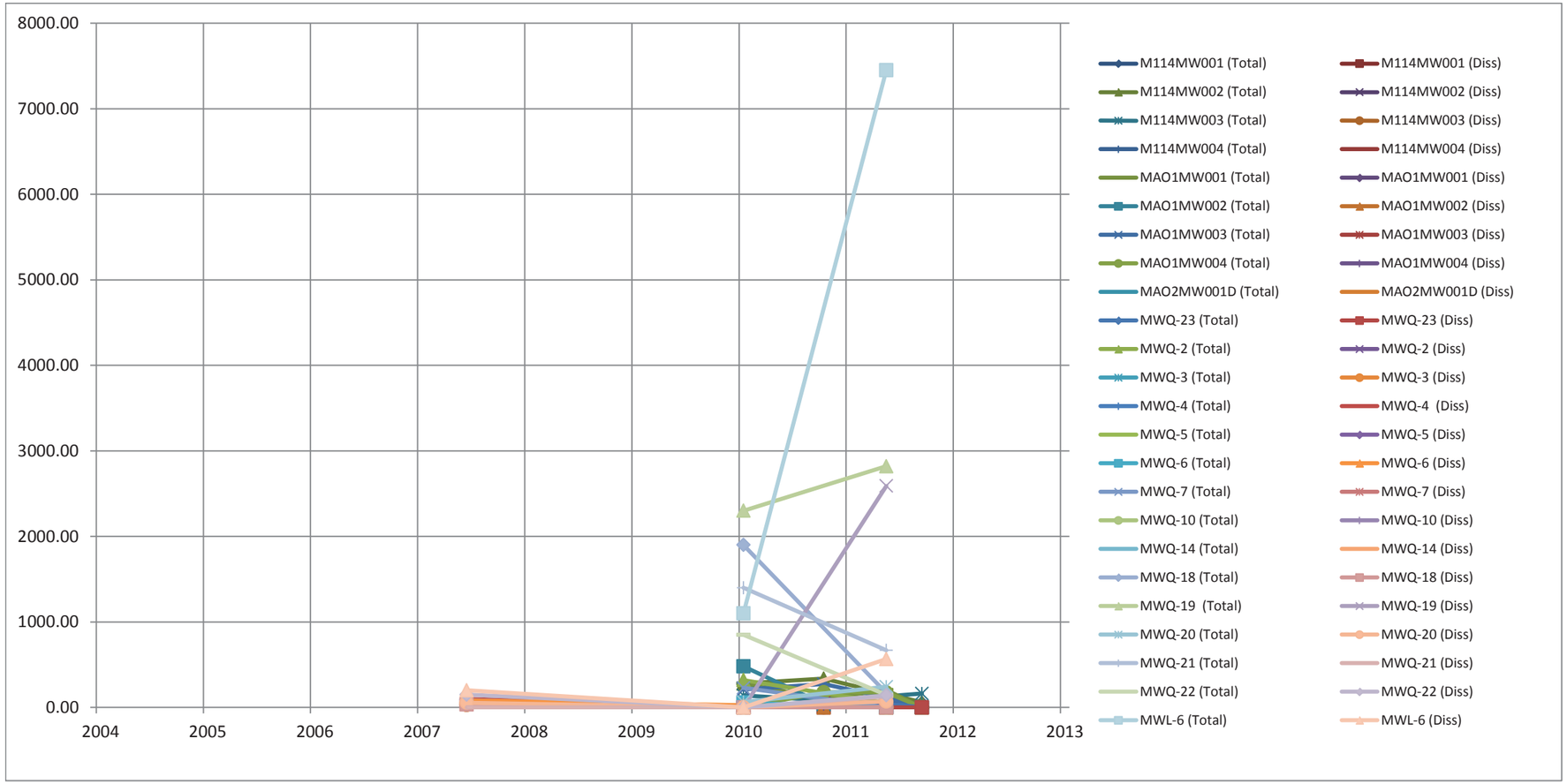
Notes:
Data in µg/L

NMAC WQCC Groundwater Limit:	1000
USEPA Drinking Water MCL:	300
NMED SSL Tapwater Screening Level:	2560

Red indicates exceedance
Blank cells indicate no data

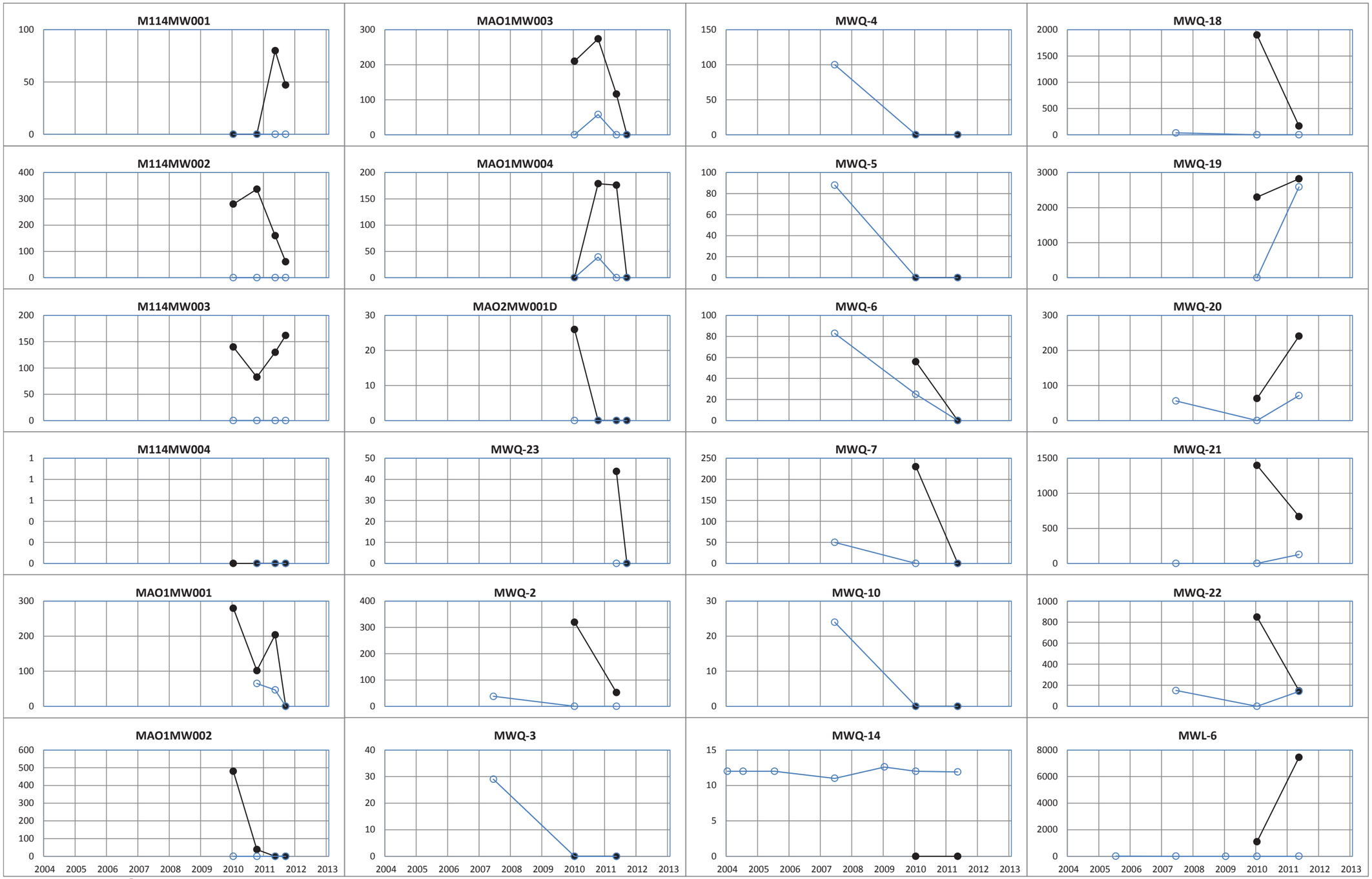
DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																												
Jul-04																												
Jul-05																												
Jun-07		38		29.0		100		88		83		50		24		43		36				56		<D.L.		150		200
Jan-09																												
Jan-10	**320**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	56	25	230	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**1900**	<D.L.	**2300**	<D.L.	63	<D.L.	**1400**	<D.L.	**850**	<D.L.	**1100**	<D.L.
Oct-10																												
May-11	52.8	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	168	<D.L.	**2820**	**2590**	241	71.1	**669**	127	147	142	**7450**	**566**
Sep-11																												
Min	52.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.0	0.0	2300.0	0.0	63.0	0.0	669.0	0.0	147.0	0.0	1100.0	0.0
Max	320.0	38.0	0.0	29.0	0.0	100.0	0.0	88.0	56.0	83.0	230.0	50.0	0.0	24.0	0.0	43.0	1900.0	36.0	2820.0	2590.0	241.0	71.1	1400.0	127.0	850.0	150.0	7450.0	566.0
Avg	186.4	12.7	0.0	9.7	0.0	33.3	0.0	29.3	28.0	36.0	115.0	16.7	0.0	8.0	0.0	14.3	1034.0	12.0	2560.0	1295.0	152.0	42.4	1034.5	42.3	498.5	97.3	4275.0	255.3

TABLE 6l
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

TABLE 6l
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

Total Concentration
Dissolved Concentration

TABLE 6m
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

DATE	Semiannual Network																			
	SWMU 114								SWMU 130								SWMU 131		Background	
	M114MW001		M114MW002		M114MW003		M114MW004		MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004		MAO2MW001D		MWQ-23	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04																				
Jul-04																				
Jul-05																				
Jun-07																				
Jan-09		0.11		<D.L.		<D.L.		<D.L.		0.32		0.11		0.15		0.13		0.13		
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
Oct-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.		
May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	2.3	<D.L.	<D.L.	<D.L.	1.92	<D.L.
Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.2	2.3	0.1	0.0	0.1	1.9	0.0
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.0	0.0

Notes:

Data in µg/L

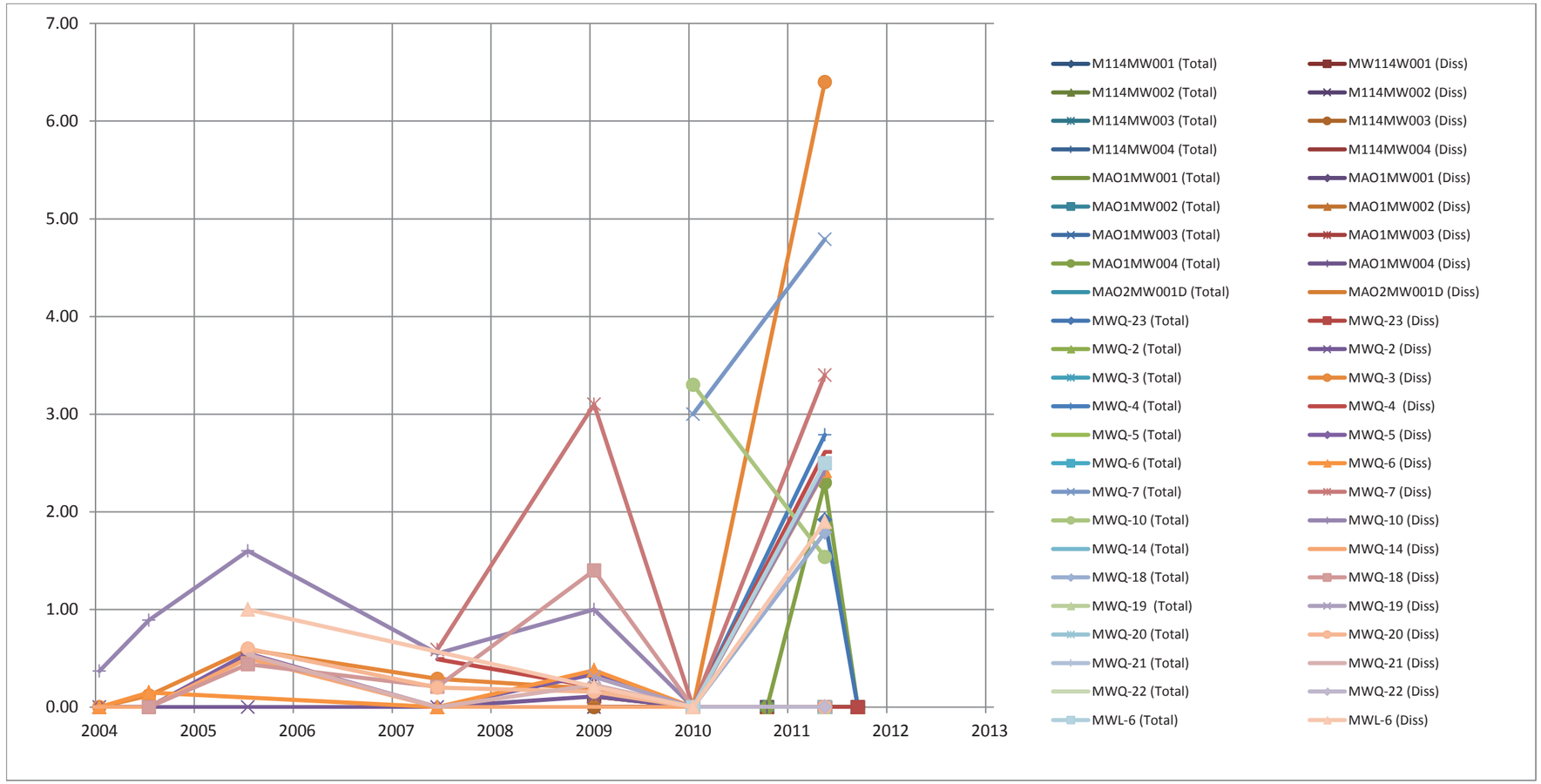
NMAC WQCC Groundwater Limit:	50
USEPA Drinking Water MCL:	15
NMED SSL Tapwater Screening Level:	---

Red indicates exceedance

Blank cells indicate no data

DATE	Annual Network																											
											Background		Background															
	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10		MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss	Total	Diss
Jan-04		<D.L.		<D.L.				<D.L.		<D.L.				0.37		<D.L.												
Jul-04		<D.L.		0.12				<D.L.		0.15				0.89		<D.L.		<D.L.										
Jul-05		<D.L.		0.59				0.55						1.6		0.5		0.44				0.6		0.54		0.56		1
Jun-07		<D.L.		0.29		0.49		<D.L.		<D.L.		0.59		0.55		<D.L.		0.21				0.20		<D.L.		0.21		
Jan-09		0.11		0.19		0.21		0.34		0.38		3.10		1.00		<D.L.		1.40		0.31		0.16		0.23		<D.L.		0.21
Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	3.0	<D.L.	3.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Oct-10																												
May-11	<D.L.	<D.L.	<D.L.	6.40	2.79	2.61	<D.L.	<D.L.	<D.L.	2.42	4.79	3.4	1.54	2.43	<D.L.	<D.L.	1.79	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	2.5	1.9
Sep-11																												
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.1	0.0	6.4	2.8	2.6	0.0	0.6	0.0	2.4	4.8	3.4	3.3	2.4	0.0	0.5	1.8	1.4	0.0	0.3	0.0	0.6	0.0	0.5	0.0	0.6	2.5	1.9
Avg	0.0	0.0	0.0	1.1	1.4	0.8	0.0	0.1	0.0	0.5	3.9	1.8	2.4	1.0	0.0	0.1	0.9	0.3	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.2	1.3	0.8

TABLE 6m
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO



Notes:
Data in µg/L

FIGURES

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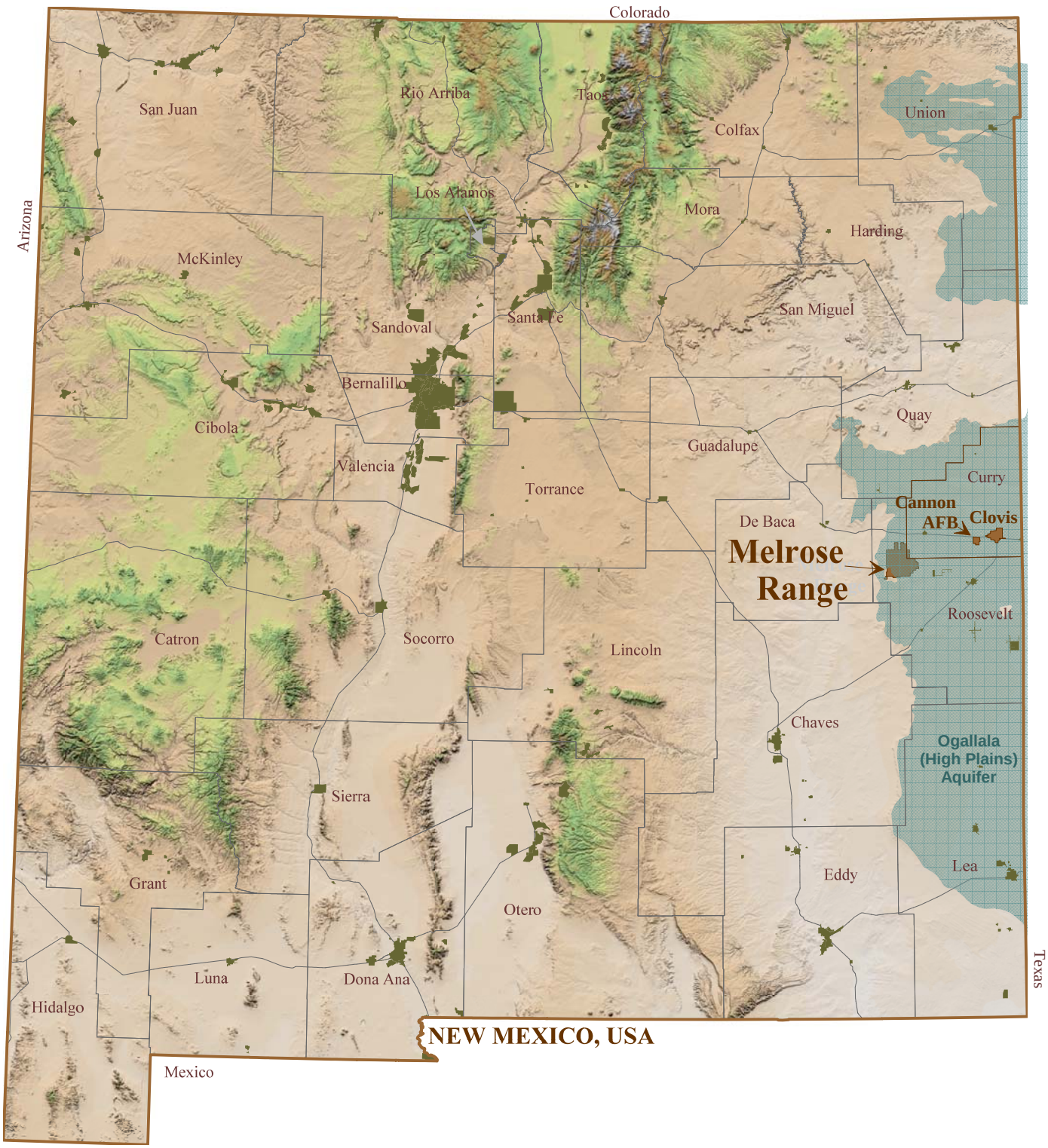
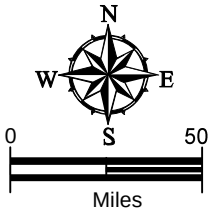




Source files: New Mexico Resource Geographic Information System Program

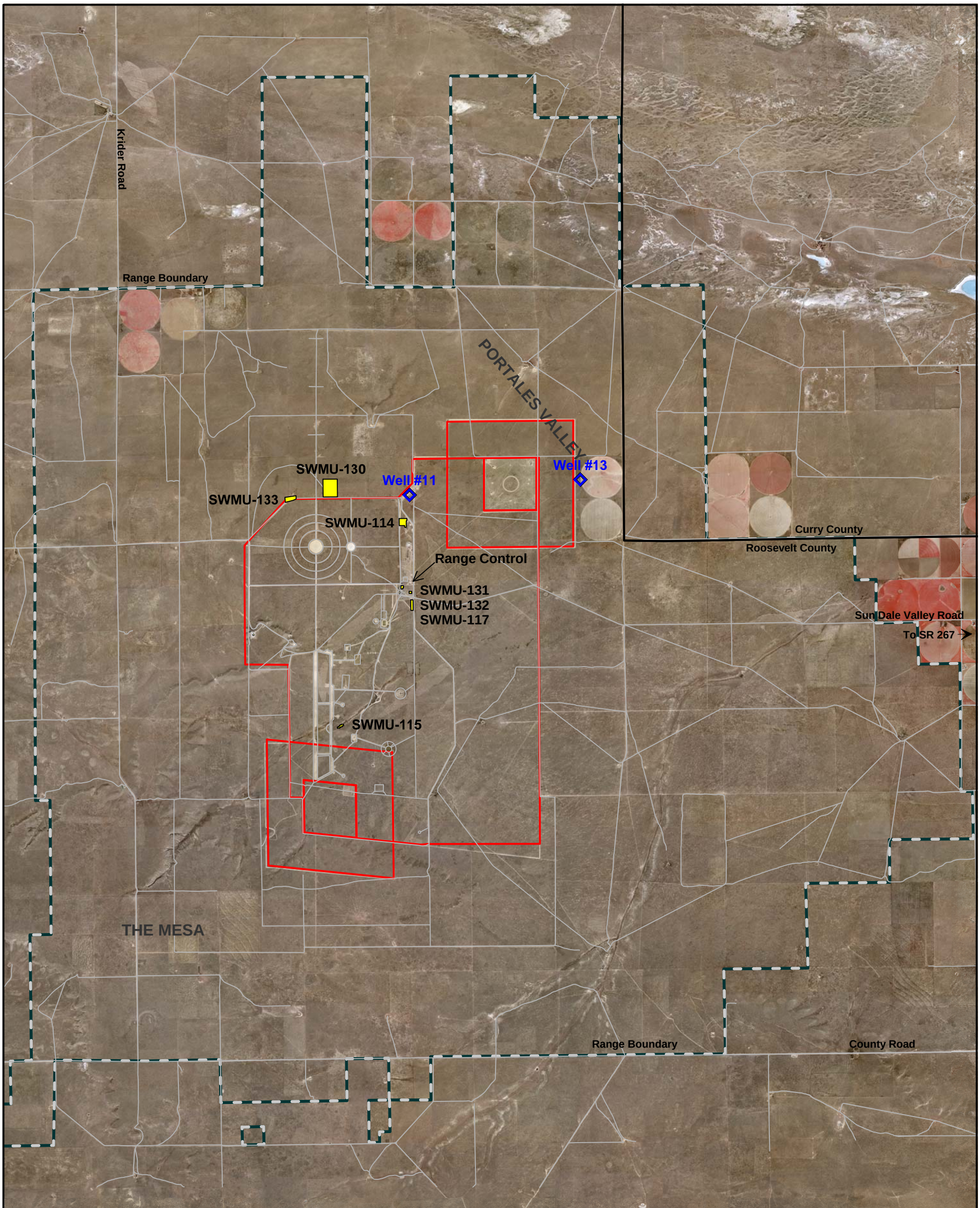
FIGURE 1

SITE LOCATION MAP

Melrose Air Force Range

Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.



N
W E
S
0 1
Miles

Source: Digital data files; GeoBase/CAFB
Aerial photography flown by 3DI West for USAF, April, 2009

Current/Former Range Complex Supply Wells (non-potable)
Solid Waste Management Unit
Impact Area
Range Boundary
Road

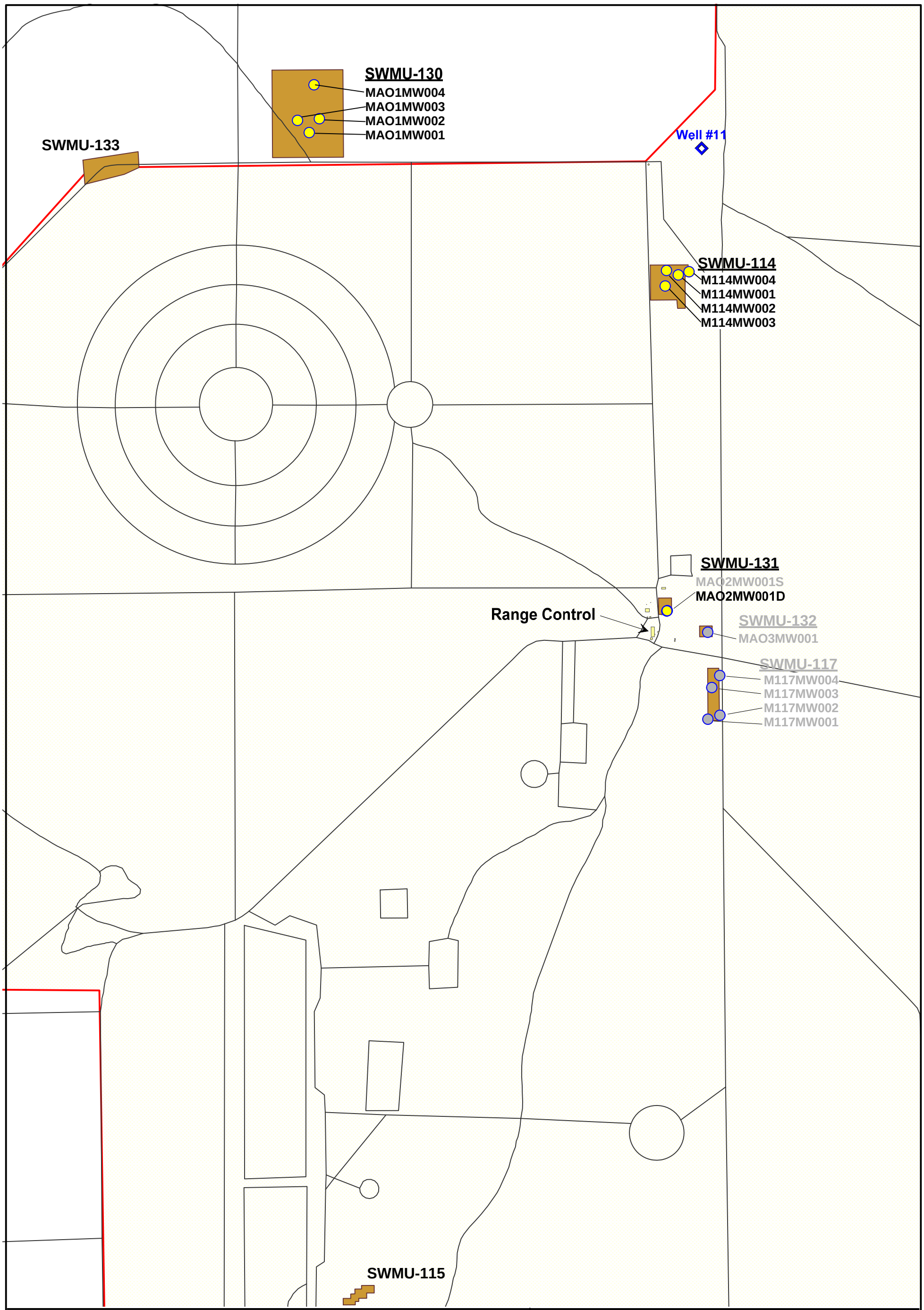
FIGURE 2

AERIAL OVERVIEW

Melrose Air Force Range

Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.



N
W E
S
0 1000
Feet

Current/Former Range Complex Supply Wells (non-potable)

Source files: Digital data files; GeoBase/CAFB

Solid Waste Management Unit
Impact Area
Road
Monitoring Well
Abandoned Monitoring Well

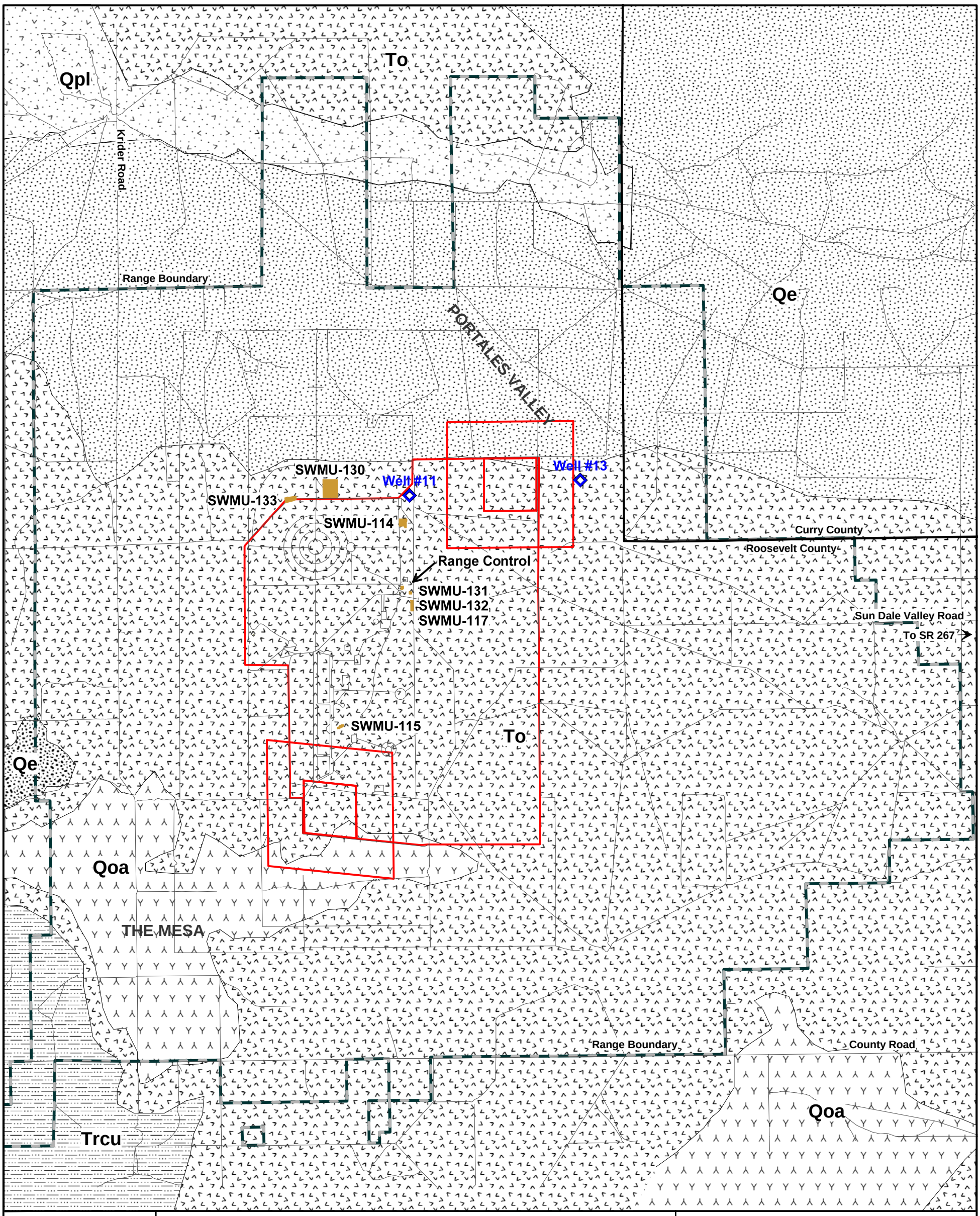
FIGURE 3
SEMIANNUAL SWMU MONITORING WELL NETWORK LOCATIONS

Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

LEGEND

- Qe - Eolian deposits, including Blackwater Draw Formation - Quaternary
- Qpl - Lacustrine and playa deposits, including Blackwater Draw Formation - Quaternary
- Qoa - Eolian deposits, including Blackwater Draw Formation - Quaternary
- To - Alluvial and eolian deposits, including Ogallala Formation - Tertiary
- Trcu - Chinle Formation, undivided - Triassic



Sources: Digital data files; GeoBase/CAFB
Map is drawn after Figure 2 from USGS Scientific Investigations Report 2004-5158; Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03.

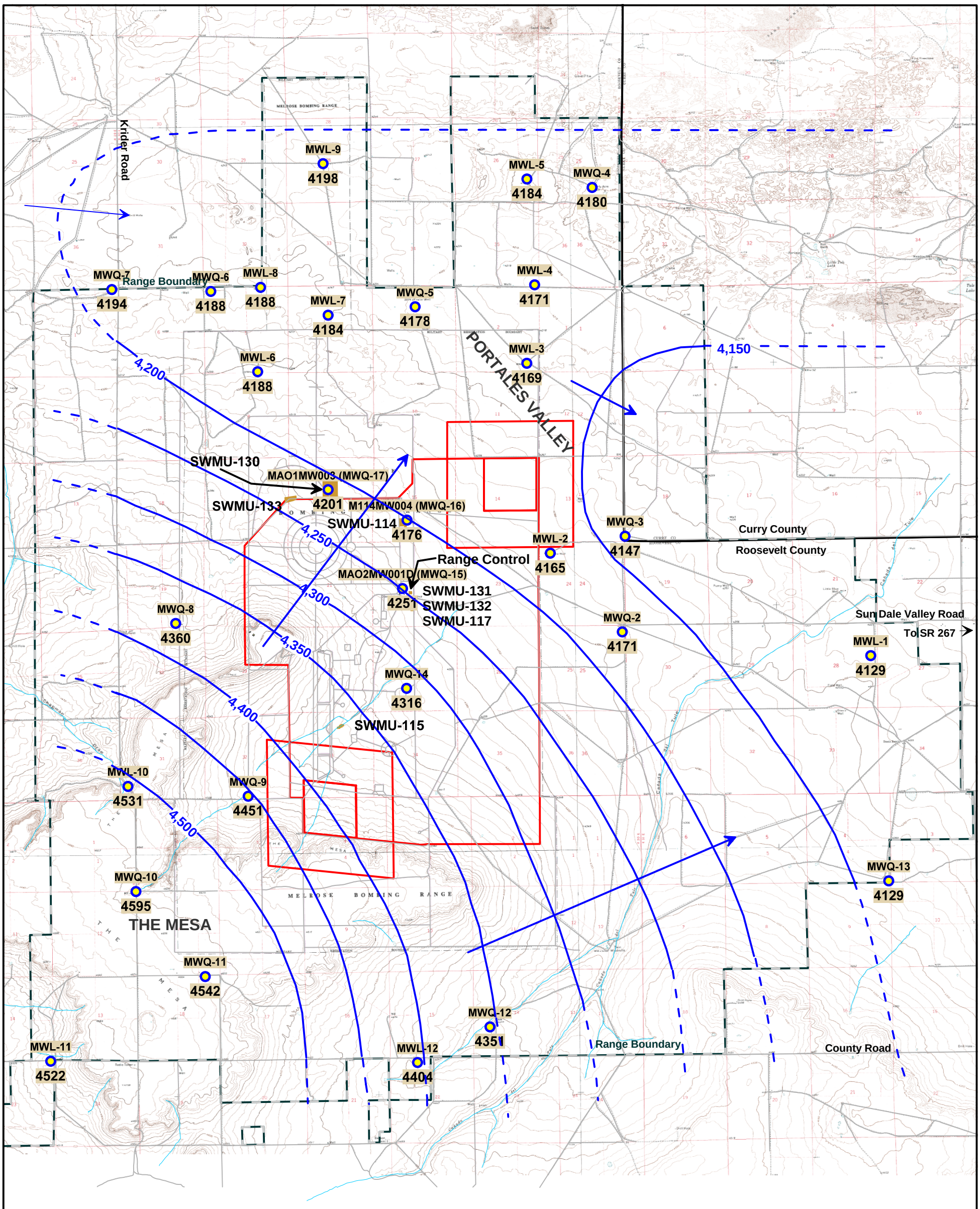
- Current/Former Range Complex Supply Wells (non-potable)
- Solid Waste Management Unit
- Impact Area
- Range Boundary
- Road

FIGURE 4
SURFACE GEOLOGY OF MELROSE AFR
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

Well ID	1/1/2003		Well ID	1/1/2003
M114MW004	4,176.00		MWQ-13	4,129.00
MAO1MW003	4,201.00		MWQ-14	4,316.00
MAO2MW001D	4,251.00		MWL-1	4,129.00
MWQ-2	4,171.00		MWL-2	4,165.00
MWQ-3	4,147.00		MWL-3	4,169.00
MWQ-4	4,180.00		MWL-4	4,171.00
MWQ-5	4,178.00		MWL-5	4,184.00
MWQ-6	4,188.00		MWL-6	4,188.00
MWQ-7	4,194.00		MWL-7	4,184.00
MWQ-8	4,360.00		MWL-8	4,188.00
MWQ-9	4,451.00		MWL-9	4,198.00
MWQ-10	4,595.00		MWL-10	4,531.00
MWQ-11	4,542.00		MWL-11	4,522.00
MWQ-12	4,351.00		MWL-12	4,404.00

As discussed in the text, limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available this has not been entirely confirmed.



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Map is modeled after Figure 8 from USGS Scientific Investigations Report 2004-5158; Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03. Ground water contours are in feet NAVD and reflect a median altitude of water table, 2002-2003

Line files from GeoBase/CAFB
USGS Topographic map from TerraServer

MWL-11 4522 Water level measuring point Elevation in feet above sea level (NAVD1988)

Solid Waste Management Unit

4,500 Water Table Contour Interval = 50 feet

Range Boundary

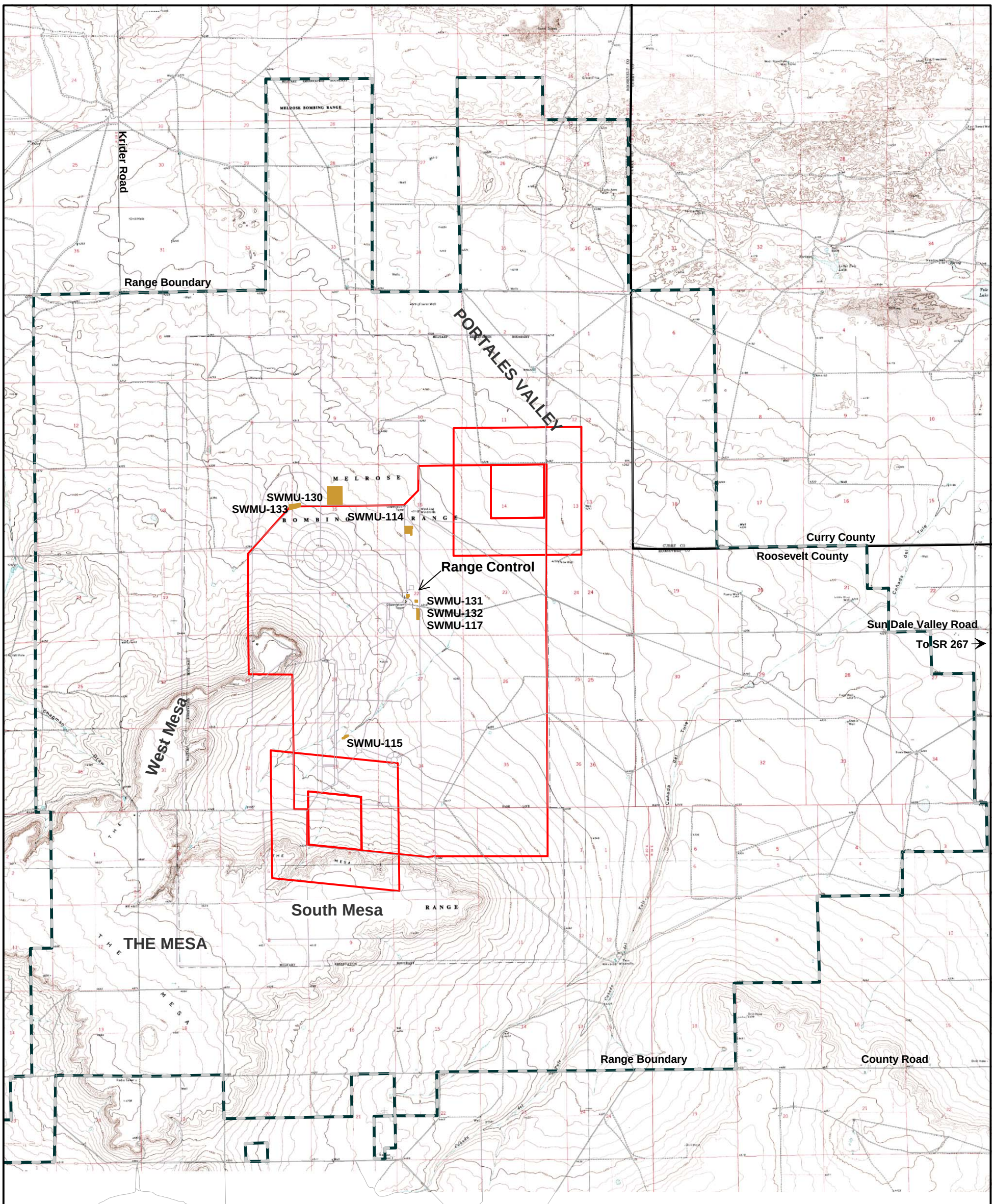
Road

Impact Area

FIGURE 5
MEDIAN GROUND WATER FLOW DIRECTION, 2002 to 2003 (USGS)

Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.



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Source: Digital data files; GeoBase/CAFB
USGS 1:24,000 Topographic Maps:
Krider; Melrose; Tolar; Tule Lake;
Gammil Well; and Gammil Well NE Quadrangles

Solid Waste Management Unit
Impact Area
Range Boundary
Road

FIGURE 6
USGS TOPOGRAPHIC MAP OF SITE AND VICINITY
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

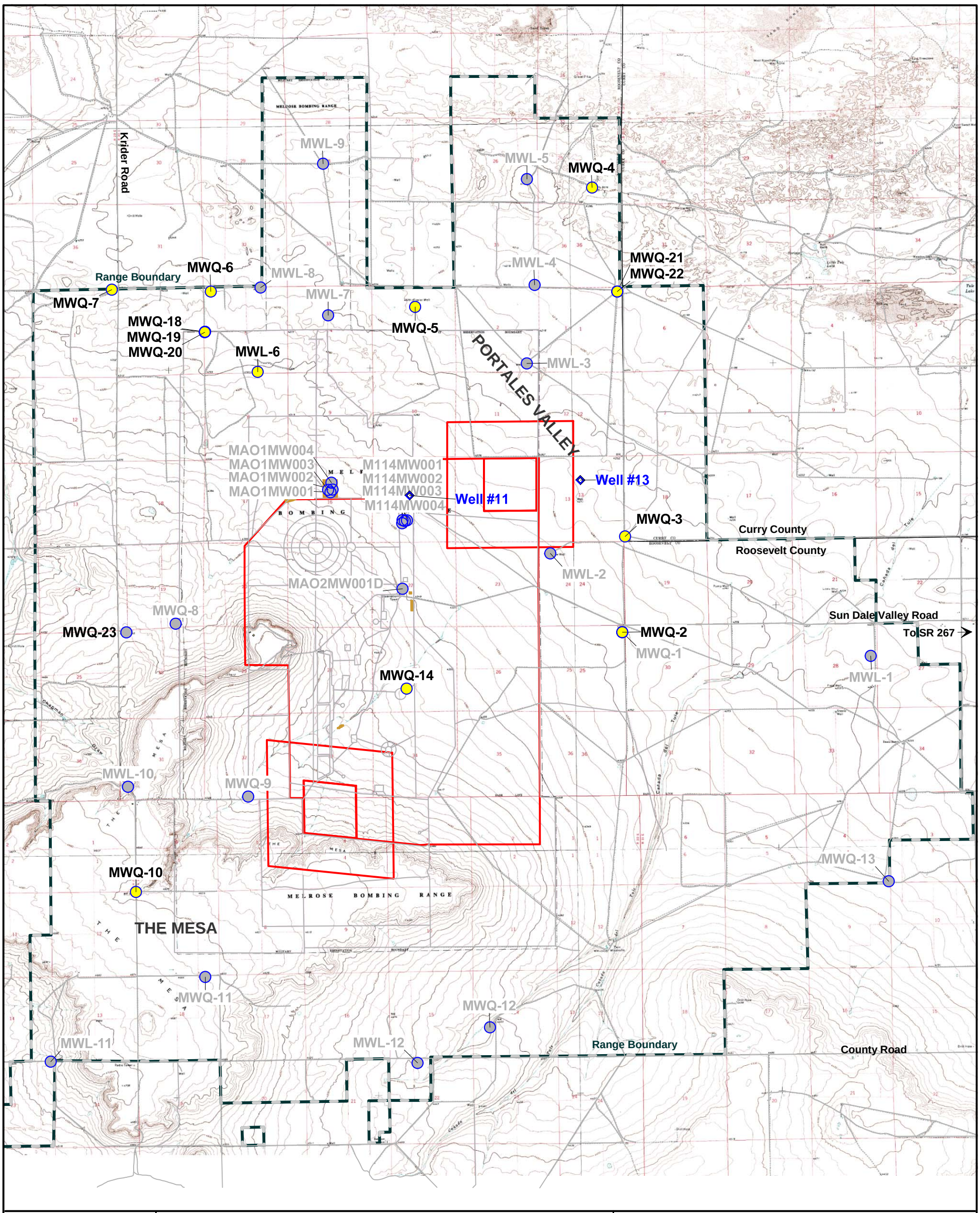
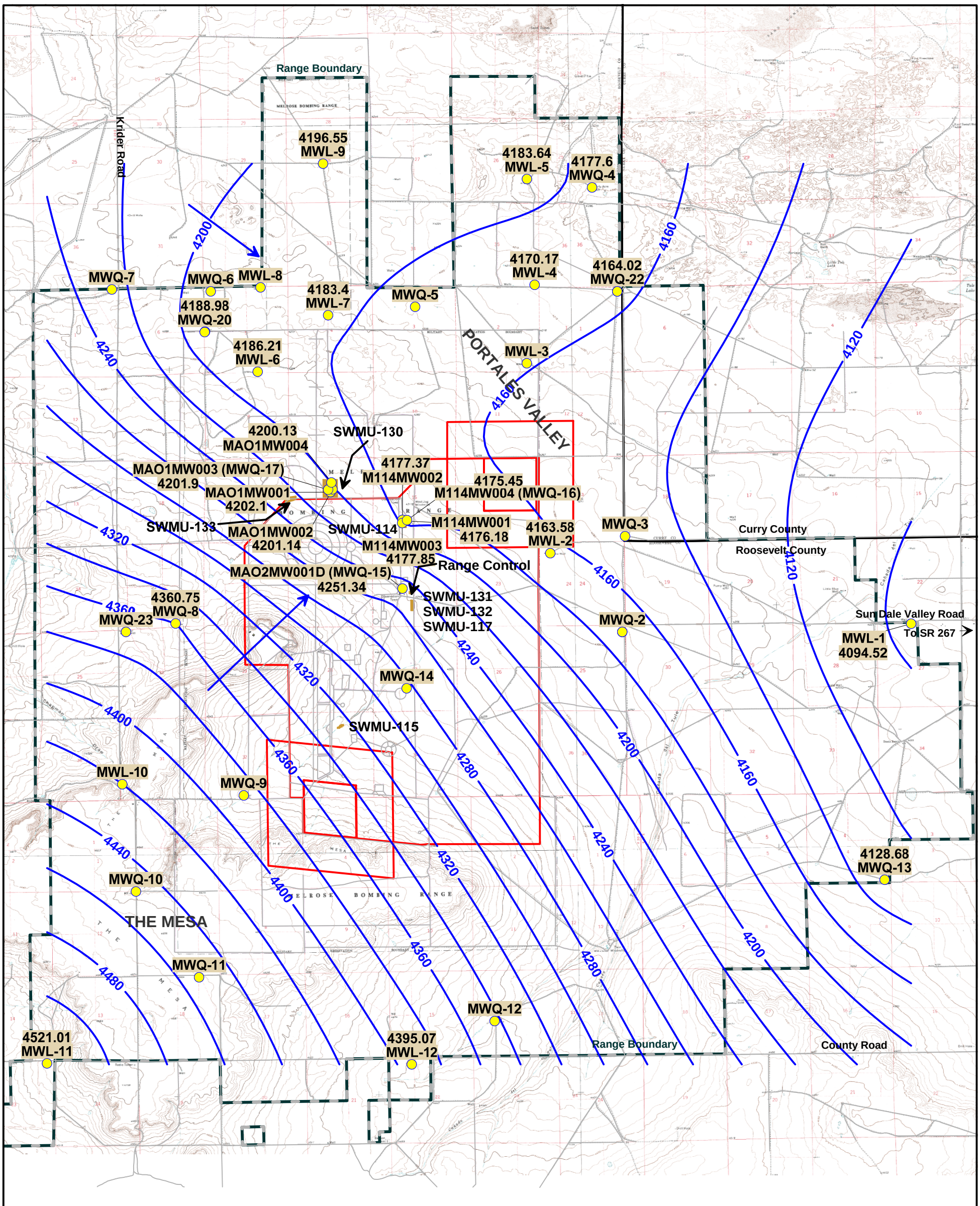


FIGURE 7
ANNUAL GROUND WATER MONITORING WELL NETWORK LOCATIONS
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

WELL ID	WATER LEVEL (ft NAVD)	WELL ID	WATER LEVEL (ft NAVD)	WELL ID	WATER LEVEL (ft NAVD)	WELL ID	WATER LEVEL (ft NAVD)
M114MW001	4,176.18	MWQ-3	no data	MWQ-14	no data	MWL-5	4,183.64
M114MW002	4,177.37	MWQ-4	4,177.60	MWQ-18	4,188.98	MWL-6	4186.21
M114MW003	4,177.85	MWQ-5	no data	MWQ-19	Chinle	MWL-7	4183.4
M114MW004	4,175.45	MWQ-6	no data	MWQ-20	Chinle	MWL-8	no data
MAO1MW001	4,202.10	MWQ-7	no data	MWQ-21	4,164.02	MWL-9	4,196.55
MAO1MW002	4,201.14	MWQ-8	4,360.75	MWQ-22	Chinle	MWL-10	no data
MAO1MW003	4,201.90	MWQ-9	Dry	MWQ-23	no data	MWL-11	4521.01
MAO1MW004	4,200.13	MWQ-10	no data	MWL-1	4,094.52	MWL-12	4395.07
MAO2MW001D	4,251.34	MWQ-11	no data	MWL-2	4163.58		
MWQ-1	no data	MWQ-12	no data	MWL-3	no data		
MWQ-2	Chinle	MWQ-13	4,128.68	MWL-4	4170.17		

As discussed in the text, limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available this has not been entirely confirmed.



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Posted ground water elevations and contours in feet NGVD. All water levels utilized for map development are posted. Water levels collected by TRINITY during semiannual sampling event.

Data files from GeoBase/CAFB

USGS Topographic map from TerraServer

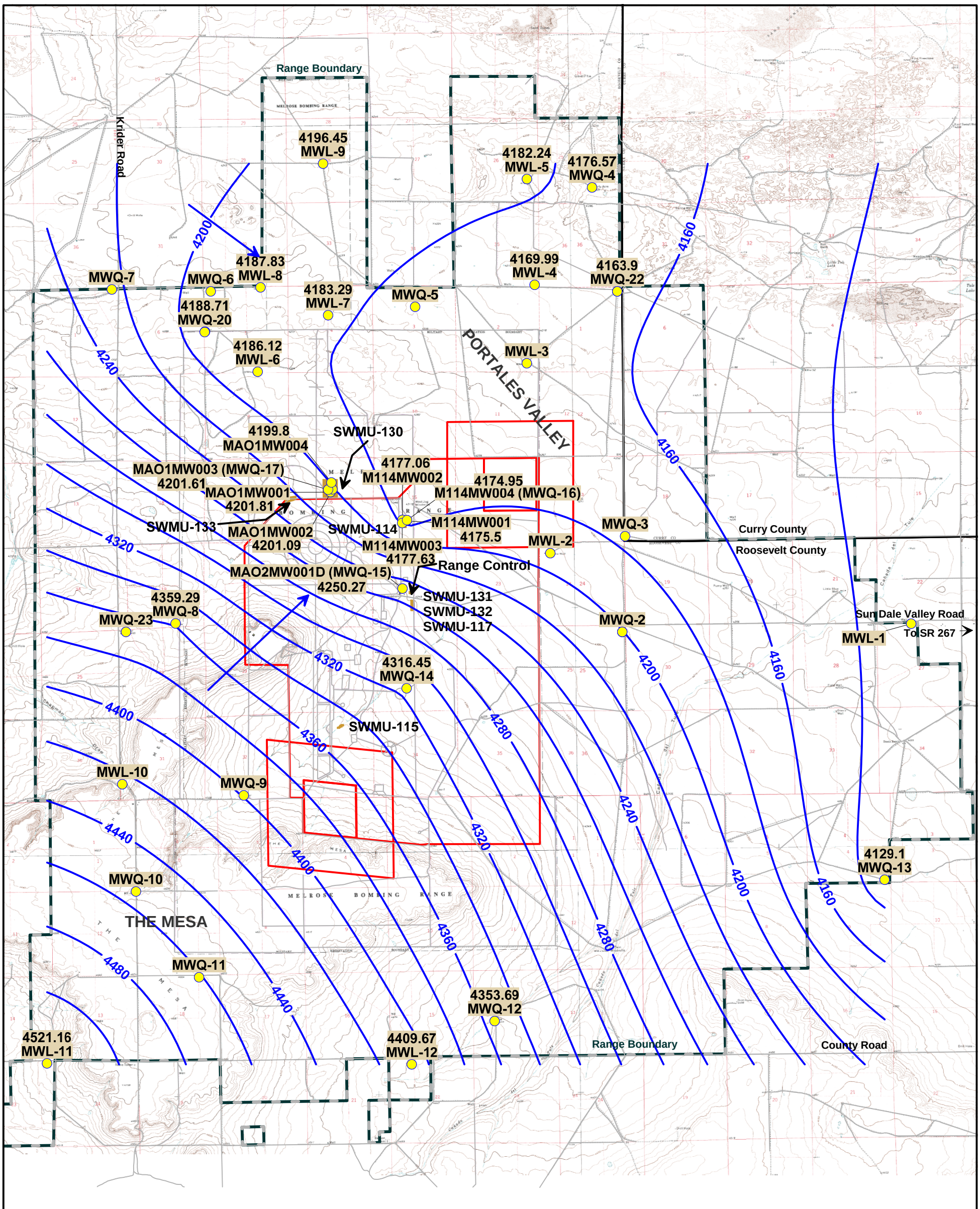
- Water level measuring point
- Environmental Restoration Area
- Impact Area
- Range Boundary
- Road

FIGURE 8
GROUND WATER FLOW MAP
5-3-2011 to 5-16-2011
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

WELL ID	WATER LEVEL (ft NAVD)		WELL ID	WATER LEVEL (ft NAVD)		WELL ID	WATER LEVEL (ft NAVD)		WELL ID	WATER LEVEL (ft NAVD)
M114MW001	4,175.50		MWQ-3	no data		MWQ-14	4,316.45		MWL-5	4,182.24
M114MW002	4,177.06		MWQ-4	4,176.57		MWQ-18	4,188.71		MWL-6	4,186.12
M114MW003	4,177.63		MWQ-5	no data		MWQ-19	Chinle		MWL-7	4,183.29
M114MW004	4,174.95		MWQ-6	no data		MWQ-20	Chinle		MWL-8	4,187.83
MAO1MW001	4,201.81		MWQ-7	no data		MWQ-21	4,163.90		MWL-9	4,196.45
MAO1MW002	4,201.09		MWQ-8	4,359.29		MWQ-22	Chinle		MWL-10	no data
MAO1MW003	4,201.61		MWQ-9	no data		MWQ-23	no data		MWL-11	4,521.16
MAO1MW004	4,199.80		MWQ-10	no data		MWL-1	no data		MWL-12	4,409.67
MAO2MW001D	4,250.27		MWQ-11	no data		MWL-2	no data			
MWQ-1	Dry		MWQ-12	4,353.69		MWL-3	no data			
MWQ-2	Chinle		MWQ-13	4,129.10		MWL-4	4,169.99			

As discussed in the text, limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available this has not been entirely confirmed.



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Posted ground water elevations and contours in feet NGVD.
All water levels utilized for map development are posted.
Water levels collected by TRINITY during semiannual sampling event.

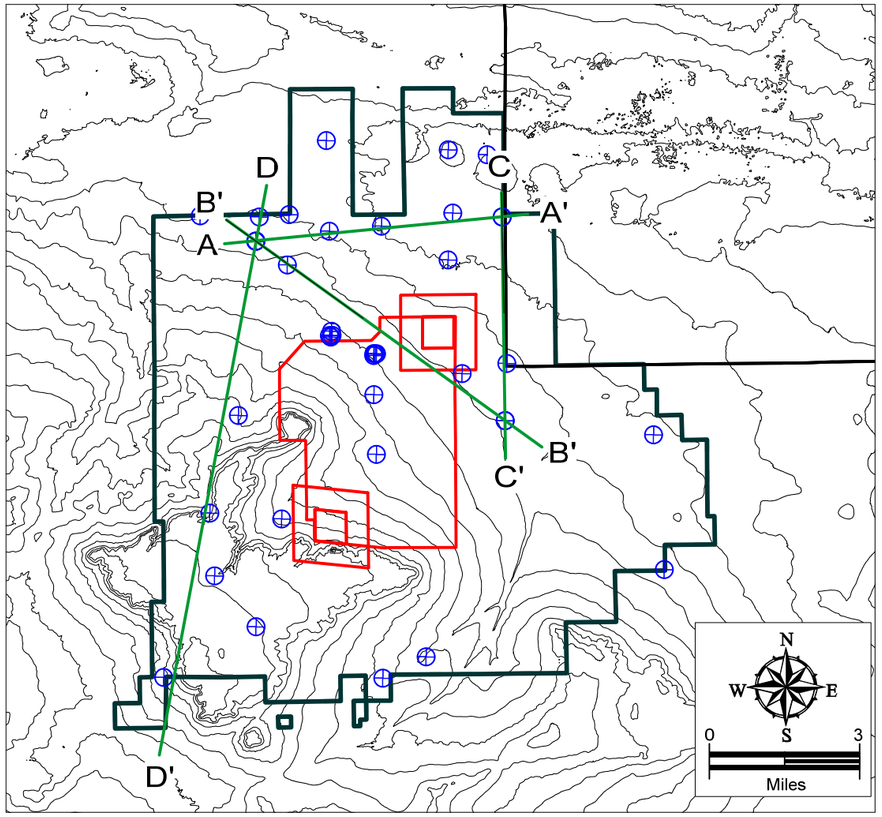
Data files from GeoBase/CAFB

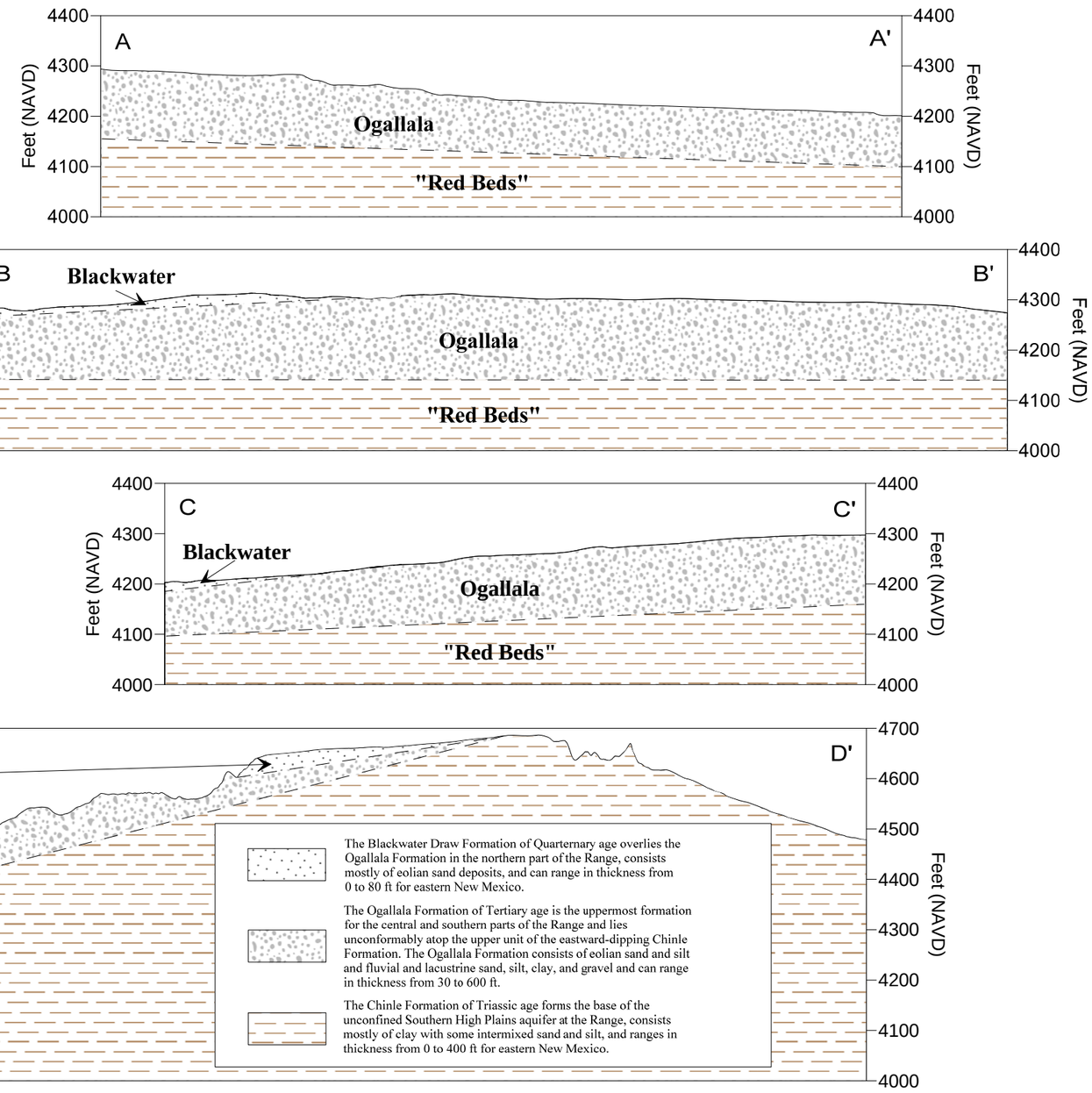
USGS Topographic map from TerraServer

Water level measuring point
Environmental Restoration Area
Impact Area
Range Boundary
Road

FIGURE 9
GROUND WATER FLOW MAP
9-26-2011 to October 3, 201
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.





0 FEET 264 Vertical Scale

0 MILE 1 Horizontal Scale

Vertical Exaggeration: 20x

SOURCES:

Digital data files; GeoBase/CAFB
Map is drawn after Figure 2 from USGS Scientific Investigations Report 2004-5158; Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03.

NOTES:

The Chinle Formation has various accepted names: Chinle Formation, Chinle Formation of the Dockum Group, and Chinle Group. All three names have been used for geologic description of areas in east-central New Mexico with usage dependent on locally identified units. Given a lack of identified units in the Range area, although this upper unit is possibly the Redonda Formation of the Chinle Group,"Chinle Formation" is used in this report. Locally, this formation is known as the "red beds."

These generalized cross sections are based on limited data from three wells that have been geophysically logged by TRINITY and by the geologic surface interpertations in Langman (2004).

FIGURE 10
GENERALIZED CROSS SECTIONS
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

APPENDIX A

Field Methods

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90 NW Beal Parkway, Suite A-2
Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

TRINITY Standard Operating Procedure Number 1.

1.0 WATER LEVEL MEASUREMENT

1.1. Objective

This section presents procedures and guidelines for measuring ground water in irrigation and monitoring wells at Melrose AFR. Consistent repeatable data should be obtained.

1.2. Procedure

Water level measurements used to define the water table in the High Plains Aquifer or Chinle Formation or a single potentiometric surface should be collected within the shortest time period at Melrose AFR possible. It should be possible to collect a complete round of water levels at Melrose AFR in two days.

Water level measurement equipment will be constructed of materials that are chemically inert and which are not prone to sorption or desorption.

When collecting water levels, measurements should be collected from wells in order of potentially least contaminated to potentially most contaminated. At Melrose AFR water levels should be measured at the Annual Ground Water Monitoring Network first, followed by the SWMU Ground Water Monitoring Network.

It is important to recheck water levels in all wells approximately 10 minutes after the initial measurement, to ensure the water levels have stabilized. If different readings are indicated, recheck the water levels until they have stabilized. Fluid level measurements will be recorded in the logbook and on the TRINITY Water Level Data Sheet.

The use of an electrical tape to measure fluid levels is mandatory at Melrose AFR, no other measurement method will be utilized. The device will consist of an electrode suspended by a pair of insulated wires. An ammeter, indicator light, or audible signal will be used to indicate when the electrode touches the water surface. Batteries supply the current. This method is also known as the electric sounder method.

The procedures for this method are as follows:

- Check batteries before going to the field and carry an ample supply of spares;
- Turn power switch “ON;”

- Decontaminate tape and probe upon arrival to a site and between measurement in different wells or piezometers, as outlined in TRINITY SOP No. 3;
- Lower probe into the well until a sharp deflection is noted on the meter, the indicator light is illuminated, or the audible tone is activated;
- Verify that the electrode is functioning properly and is indicating the water surface with the same depth each time by moving the probe up and down several times;
- Hold the probe cable at the measuring point location on the well pipe at the exact depth where the probe indicates the water surface to be. Record the reading to the nearest 0.01 foot;
- If there is no reference mark, the measurement will be from the north side of the casing;
- The total depth of the well will be measured in the same manner ; and
- Remove the probe from the well.

1.3. Reporting

All water level field data are to be entered in field log books or on an appropriate Water Level Data Summary form and will include the following information:

- Date (at top of page);
- Time recording is made;
- Station location (monitoring well or piezometer identification);
- General comments about condition; and
- Measuring point, usually.

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TRINITY Standard Operating Procedure Number 2.

1.0 GROUND WATER SAMPLING

1.1. Objective

The objective of this section is to provide procedures for the sampling of supply wells and ground water monitoring wells at Melrose AFR. These procedures were designed so that the ground water samples will be of verifiable and legally defensible quality. To ensure that this goal is achieved, sampling protocols must be strictly followed and sample collection and handling must be properly documented in field log books, ground water sampling logs, COC forms, and project files. This procedure applies to all personnel who are responsible, both directly and indirectly, for ground water sampling and the evaluation of analytical results from ground water samples collected at Melrose AFR.

1.2. Procedure

This section presents procedures to be followed for collection of ground water quality samples. All sampling personnel must be knowledgeable of ground water sampling procedures and the established protocols. Adequate preparations for sampling trips will be made by the Field Manager to ensure that sampling will be performed as efficiently and cost effectively as possible. Proper sampling protocol will be followed to ensure that representative samples of ground water are provided for analysis, and that the act of sampling and the specific equipment utilized to collect each specific sample is consistent.

1.3. Pre-Sampling Trip Preparation

The Field Manager is responsible for review of available information and preparation of equipment to ensure that the sampling trip is performed as efficiently as possible. Thorough preparation will reduce lost time during sampling episodes, and will ensure that the sampler has the

proper equipment available on site to follow established protocols. The following pre-sampling activities are recommended.

The sampling equipment will be inspected to confirm proper calibration and good repair. Equipment failing to operate within manufacturer's recommended specifications, must be properly repaired, adjusted, and calibrated prior to utilization. Documentation of equipment maintenance must be recorded in the field log book. Expendable field supplies will be checked to determine whether adequate quantities of all supplies are available. Monitoring well construction logs and available water level data for all wells to be sampled should be reviewed to evaluate the conditions that will be encountered and the approximate volume of water to be purged.

Sample bottles must be ordered from the laboratory at least 2 to 3 weeks prior to the sampling date and arrangements made for shipment to Clovis New, Mexico. Coolers will be shipped and held at the local FedEx office for pickup by the sampling team. When ordering sampling bottles, bottles for blanks and duplicates must be obtained, and the type of blanks to be obtained must be specified. Reagent grade water for equipment blanks must be provided by the laboratory or an appropriate vendor. Sample bottles obtained from the laboratory must be checked to ensure that all necessary sample bottles and associated preservatives have been provided.

The Annual Ground Water Monitoring Network will be sampled prior to the SWMU Ground Water Monitoring Network so that the potentially least contaminated wells at the site will be sampled first, progressing to the potentially most contaminated wells.

On the day of sampling, on-site weather conditions will be evaluated to determine whether they are suitable for sample collection. Upon arrival at the site, the location and access to wells will be verified. Wells will be inspected to determine the condition of the surface casings, surface seals, well identification, and condition of the casing. The general condition of the wells and any abnormalities noted must be recorded in the field log book and the TRINITY Monitoring Well Inspection Form.

1.4. Initial Activities

The fluid levels will be measured in the well using the electric tape method (TRINITY SOP No. 1).

The total depth of each well will NOT be measured before sampling to ensure that silt or sand is not mobilized in the well prior to sampling. The total depth recorded during previous sampling events

will be utilized and verified once sampling has been completed. If the total depth is unknown then the total depth of the well should be measured prior to ground water sampling. However, the well should be allowed 24 to 48 hours prior to sampling, when practical. The total depth measurement will be used to determine if silt is accumulating in the well or if the screen is possibly damaged.

1.5. Well Purging

All monitoring wells will be purged before collecting samples to assure that the ground water sample submitted for laboratory analyses is representative of ground water quality in the aquifer. During the purging process, field parameters (pH, specific conductivity, dissolved oxygen, temperature, ORP, and turbidity) will be measured. Two types of wells are currently being sampled at Melrose AFR and include:

- Supply wells with dedicated submersible pumps; and
- Monitoring wells.

1.5.1. Supply Wells with Dedicated Pumps

For supply wells with dedicated submersible pumps the following steps will ensure that a representative sample of ground water is collected:

- Select the spigot that is closest to the pump and before any pressure tank (if possible);
- Remove all hoses, aerators and filters (if possible);
- Open the spigot and purge at maximum flow;
    - If the pressure tank is located between the pump and the spigot, purge the volume of the pressure tank, lines and spigot;
    - If the spigot is before any storage tank, purge the stagnant water from the spigot and the tap line to the spigot;
- Measure the depth to ground water frequently while adjusting the flow rate to eliminate or minimize drawdown, where possible;
- Once the line, spigot, and associated pressure tank has been pumped, pump one well volume before collecting stabilization parameters. To determine the volume of water standing in the well, the following formula may be used:

$$V = 0.041\ d2h$$

Where: h = water column height (feet; well depth minus depth to water level)

d = diameter of well (inches)
V = volume of water standing in the well (gallons)

See **Section 1.6** below for stabilization details; and

- Reduce the flow rate to < 0.2 gpm before collecting samples.

1.5.2. Monitoring Wells

Only stainless steel submersible pumps will be used to collect ground water samples from monitoring wells.

- Do not lower the pump or intake hose (tubing) to the bottom of the well as this will mobilize silt and sand increasing the turbidity. Place the pump intake in the middle of the screened interval;
- Position fuel powered equipment downwind and at least 10 feet from the well head making sure that the exhaust faces downwind;
- Carefully position the decontaminated pump in the screened interval;
- The pump shall be turned on and the minimum flow rate possible shall be immediately attained. The objective is to have a flow rate low enough so that non-turbulent, rather than turbulent, flow is induced.
- Measure the depth to ground water frequently while adjusting the flow rate to eliminate or minimize drawdown, where possible; and
- Pump one equipment volume before collecting stabilization parameters. To determine the equipment volume calculate the total volume of the pump, associated tubing and container that is used for in situ measurements (flow container), if used, using the following equation:

$$V = p + ((0.041)\ d \times d \times l) + fc$$

Where: V = volume in gallons
p = volume of pump in gallons
d = tubing diameter in inches
l = length of tubing in feet
fc = volume of flow cell in gallons

See **Section 1.6** below for stabilization details.

1.6. Stabilization

Use of a flow-through cell to measure the stabilization parameters, collecting stabilization readings at a minimum of five minutes apart. Well purging will continue until the following criteria have been met:

- Turbidity: ≤ 10 NTUs or ± 10% where > 10 NTUs;
- pH: ± 0.1 units;
- Specific Conductance: ± 3% of reading;
- DO: ± 0.3 mg/L of reading;
- ORP: ± 10 millivolts (mV);
- Temperature: ± 10% of reading.

If the stabilization parameters cannot be met, and all attempts have been made to minimize the drawdown, check the instrument condition and calibration, purging flow rate and all tubing connections to determine if they might be affecting the ability to achieve stable measurements. All measurements that were made during the attempt must be documented. The Field Manager may decide whether or not to collect a sample.

1.7. Sample Collection

Sampling personnel will wear a clean pair of new, non-powdered, disposable latex gloves at each different sampling location. These gloves will be donned immediately prior to sampling activities.

Samples will be collected in the following order (as applicable):

- VOCs
- Perchlorate
- Explosives
- Mercury
- Total metals
- Dissolved metals
- Hexavalent chromium
- Cyanide
- Alkalinity, chloride, nitrate, nitrite, sulfate, and TDS

1.8. Labeling and Handling Requirements

Prior to sample collection, samples will be labeled and handled in accordance with the FSP and QAPP.

1.9. Collection of Quality Control Samples

All QA/QC sampling activities must comply with the requirements of the FSP and QAPP.

1.10. Field Equipment Decontamination

Sampling and monitoring equipment will be decontaminated according to TRINITY SOP 3.

1.11. Field Documentation

A bound field log book must be maintained by sampling personnel to provide a daily record of sampling and events. The following information must be recorded into the log book using indelible, waterproof ink:

- Date
- Time
- Weather conditions
- Personnel present
- Signature of personnel making entry
- Well ID
- Total depth of well (if measured)
- Depth to water
- Well yield
- Purge volume and method
- Sample volume
- Sample withdrawal procedures
- Date and time of collection
- Well sampling sequence
- Field analyses performed
- Analyses requested
- Quality control activities

- Calibration procedures and results
- Problems encountered and corrective actions taken
- Sample distribution and transporter
- Field observations (e.g., unusual conditions, equipment malfunctions, and condition of monitoring well)

Pertinent data will also be recorded on the TRINITY Ground Water Sample Collection Field Sheet for that specific sampling location.

1.12. Shipping

Samples will be shipped in accordance with the FSP.

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Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

TRINITY Standard Operating Procedure Number 3.

1.0 DECONTAMINATION PROCEDURES

1.1. Objective

The cleaning procedures outlined in this SOP represent standard decontamination procedures utilized by USEPA Region IV (EPA, 2001). If possible, sufficient clean equipment will be transported to Melrose AFR to minimize field decontamination activities. The only items that will require decontamination while at Melrose AFR are the water level tape and the submersible stainless steel pumps. Dedicated pump tubing is located in each monitoring well. The tubing will be replaced when necessary. Specific cleaning procedures are presented in the following sections. Disposable sampling equipment will be used as much as possible to minimize the need for decontamination. In addition, sample containers for laboratory analyses and coolers for storage and shipment will be provided by the laboratory and certified as clean. The ground water sample containers will not be reused.

Sampling and field equipment cleaned in accordance with these procedures meet the minimum requirements for the DQOs specified in the WP. Alternative field decontamination procedures must be justified and documented in the field records, and investigative reports.

1.2. Procedure

1.2.1. Cleaning Materials

The cleaning materials referred to in this SOP document are described in the following paragraphs.

The laboratory detergent will be a standard brand of phosphate-free laboratory detergent such as Liquinox®. The use of any other detergent must be justified, and documented in the field log books and inspection or investigative reports. This detergent must be kept in a clean plastic container until used.

Tap water may be used from any municipal water treatment system. The use of an untreated potable water supply is not an acceptable substitute for tap water. Tap water must be stored in clean tanks, sprayers or squeeze bottles, or may be applied directly from a tap water source.

Deionized water is defined as tap water that has been treated by passing through a standard deionizing resin column. Deionized water must be stored in clean glass, stainless steel, or plastic containers.

The detergent and rinse water baths may be reused, but new solutions must be prepared periodically, depending on the amount of equipment requiring decontamination.

1.2.2. Marking and Segregation of Used Field Equipment

Field or sampling equipment that needs to be repaired will be identified with a tag. Any equipment problems and repair requirements shall be noted on this tag. Field equipment needing cleaning or repairs will not be stored with clean equipment, sample tubing, or sample containers.

1.3. Water Level Tapes Used to Measure Ground Water Levels

The following procedures apply to cleaning water level tapes and tag lines both in the field and at the shop. The procedures shall be followed for all sounding equipment upon arriving at a site and before leaving it. Personnel shall clean tag lines in accordance with these procedures between each well. However, just the probe on water level tapes may simply be rinsed with deionized water between wells, if gross contamination does not exist.

- Wash with laboratory detergent and tap water;
- Rinse with tap water;
- Rinse with deionized water;
- Allow to air dry overnight (doesn't apply to field cleaning); and
- Wrap equipment in aluminum foil (with tab for easy removal), seal in plastic, and date (doesn't apply to field cleaning).

1.4. Submersible Pumps

CAUTION: To avoid damaging these pumps, the following precautions should be taken:

- Never run pumps under dry conditions.

1.4.1. Cleaning Procedure

- Pump a sufficient amount of soapy water through the pump to flush out any residual purge water;
- Using a brush, scrub the exterior of the electrical supply/control cables, and pump with soapy water. Rinse the soap from the outside of each with tap water. Next, rinse each with deionized water and recoil onto the spool;
- Pump a sufficient amount of tap water through the pump and associated hose to flush out soapy water;
- Pump or pour a sufficient amount of deionized water through the pump and hose to flush out the tap water;
- Rinse the outside of the pump, hose, and electrical supply control cables with deionized water; and
- Place the equipment in a polyethylene bag or wrapped with polyethylene film to prevent contamination during storage or transit. Insure that a set of rotors, fuses, and cables are attached to each cleaned pump.

1.5. References

U.S. Environmental Protection Agency, Region IV, *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual, Environmental Services Division, November 2011*.

APPENDIX B

Field Data

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Groundwater Sampling Logs

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DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: Melrose AFR	
WELL NO: MWQ 23	SAMPLE ID: MWQ-23		DATE: 5/16/11

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ~~NA~~ ESP JMK

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1018	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1018			2								
1024	12	12	2	–	7.90	19.37	2447	.25/2.7	0.57	clear	-12.1
1029	12	24	2	–	7.92	19.44	2450	.21/2.3	0.41	clear	-16.2
1034	12	36	2	–							
* 1036	S topped										
1044			2	Started							
1046			2	~~7.94~~	7.94	19.52	2456	.63/6.7	.99	clear	11.8
1051	24	60	2		7.96	19.21	2448	0.34/3.6	.30	clear	-14.9
1056	12	72	2		7.97	19.23	2450	.17/1.8	.22	clear	-20.5
1101	12	84	2		7.88	19.45	2442	.12/1.3	.99	clear	-22.3
1106	12	96	2					.11/1.2	.37	Clear	-22.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~MP~~ 08 ~~BA~~ 04 100 2	SAMPLER(S) SIGNATURES: 7.98 1954 2442 / 7.99 19.58 2445	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): Trinty	~~SAMPLE PUMP~~ FLOW RATE (mL per minute):	TUBING MATERIAL CODE: .32 clear -22.2	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION .12/1.3			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
					Divide by 1000			
					should be 2.442			

REMARKS: Livestock Well * Had to adjust timer on pump.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR (SWMU114)	SITE LOCATION: Melrose AFR	
WELL NO: M114MW001	SAMPLE ID: M114MW001	DATE: 5/9/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.03	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 207.5 feet) + ~~0.05~~ 0.5 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 174	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 174	PURGING INITIATED AT: 0832	PURGING ENDED AT: ~~0920~~ 0953 max	TOTAL VOLUME PURGED (gallons): ~~14.04~~ 10.53 max

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0832			.13								
0845			.13	154.10							
0908	4.68	4.68	.13	158.96	7.46	22.22	1284	1.32/15.9%	16.8	clear	30.9
0913	0.65	5.33	.13	159.57	7.59	22.26	1278	1.43/17.2%	11.7	clear	16.6
0918	0.65	5.98	.13	160.54	7.64	21.95	1260	1.88/22.5%	10.6	clear	15.3
0923	0.65	6.63	.13	161.49	7.66	22.22	1243	2.30/27.7%	6.77	clear	13.9
0928	0.65	7.28	.13	162.39	7.68	22.01	1232	2.85/34.2%	4.77	clear	17.2
0933	0.65	7.93	.13	162.77	7.70	21.97	1228	3.16/37.4%	5.34	clear	17.4
0938	0.65	8.58	.13	163.18	7.70	22.05	1245	3.05/36.3%	4.35	clear	16.3
0943	0.65	9.23	.13	163.74	7.72	22.99	1240	3.03/36.7%	4.08	clear	16.7
0948	0.65	9.88	.13	164.47	7.73	23.81	1233	3.00/36.8	3.51	clear	12.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity ADC	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 174.0	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: M114 MW001	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0953	.65	10.53	.13	164.80	7.73	23.56	1230	3.02/32.0	3.40	clear	12.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR SWMU 114	SITE LOCATION:	
WELL NO: M114 MW002	SAMPLE ID:	DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 150.74	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
~~183.4~~ = (~~192.1~~ JMR feet – ~~150.74~~ JMR feet) X ~~.65~~ gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 177.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 177.4	PURGING INITIATED AT: 950	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 11.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
~~0930~~											
0950			.12								
0959	1.08		.12	152.11							
1008	.84		.12	153.42	6.96	20.54	1304	5.26/60.1	34.0	clear	154.5
1014	.72		.12	153.83	7.33	19.43	13.99	2.41/27.6	64.1	clear	83.2
1019	0.60	3.24	.12	154.50	7.41	19.97	14.10	2.05/23.6	68.1	clear	73.5
1024	0.60	3.84	.12	154.97	7.44	19.91	14.06	2.05/23.4	65.4	clear	70.4
1029	0.60	4.44	.12	156.28	7.46	20.73	13.86	1.96/22.8	49.9	clear	68.0
1034	0.60	5.04	.12	156.88	7.29	21.30	13.78	1.90/22.4	43.4	clear	66.5
1040	0.72	5.76	.12	158.00	7.48	21.29	13.64	1.94/23.0	39.8	clear	66.1
1045	.60	6.36	.12	158.25	7.49	21.50	12.64	2.31/27.4	31.1	clear	62.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 177.4	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: M114 MW002	SAMPLE ID:	DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1050	.60	6.96	.12	158.75	7.50	21.16	1352	2.60/30.5	25.0	clear	63.0
1055	.60	7.56	.12	159.18	7.52	21.17	1334	2.77/32.7	22.5	clear	59.2
1100	.60	8.16	.12	159.63	7.49	21.30	1319	2.90/34.3	21.4	clear	64.3
1105	.60	8.76	.12	160.01	7.49	21.56	1318	3.01/35.7	19.4	clear	66.3
1110	.60	9.36	.12	161.03	7.39	21.26	1314	3.32/39.0	17.9	clear	62.3
1115	.60	9.96	.12	161.55	7.51	22.10	1311	3.36/40.4	17.8	clear	55.3
1120	.60	10.56	.12	162.45	7.49	21.84	1310	3.42/40.8	13.3	clear	53.2
1125	.60	11.16	.12	162.88	7.49	22.09	1302	3.50/41.9	11.8	clear	54.6
1130	.60	11.76	.12	163.50	7.52	22.40	1305	3.44/41.4	9.46	clear	54.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 114	SITE LOCATION: Melrose AFR	
WELL NO: M114 MW003	SAMPLE ID: M114 MW003	DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.77	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~184.4~~ NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 176	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 176	PURGING INITIATED AT: 1328	PURGING ENDED AT: 1426	TOTAL VOLUME PURGED (gallons): 11.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1328			0.20								
1341	2.6	2.6	0.20	155.30	7.63	20.58	1589	3.21/32.5	25.3	clear	181.8
1346	1.0	3.6	0.20	156.63	7.69	21.00	1587	2.79/33.0	26.2	clear	174.1
1351	1.0	4.6	0.20	157.56	7.53	20.95	1586	2.72/32.1	20.2	clear	163.3
1356	1.0	5.6	0.20	158.63	7.43	21.22	1584	2.67/31.7	17.1	clear	160.9
1401	1.0	6.6	0.20	159.35	7.62	21.37	1584	2.65/31.7	15.5	clear	160.8
1406	1.0	7.6	0.20	160.09	7.48	21.39	1588	2.59/31.0	18.1	clear	162.0
1411	1.0	8.6	0.20	160.86	7.54	22.24	1582	2.49/30.1	14.6	clear	161.1
1416	1.0	9.6	0.20	161.36	7.59	21.66	1583	2.59/31.1	15.8	clear	163.5
1421	1.0	10.6	0.20	161.82	7.63	22.35	1583	2.41/29.2	19.0	clear	170.4
1426	1.0	11.6	0.20	162.59	7.62	21.67	1580	2.57/31.2	14.2	clear	163.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 176	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
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Environmental & Engineering Services

90 NW Beal Parkway, Suite A-2
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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 114		SITE LOCATION: Molrose AFR	
WELL NO: M114MW004	SAMPLE ID: M114 MW 004		DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 149.54	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (184 feet – 149.54 feet) X 0.65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.10~~ 0.5 gallons + (0.0026 gallons/foot X 208 feet) + ~~.10~~ 0.5 gallons = ~~.74~~ 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 176	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 176	PURGING INITIATED AT: 1402	PURGING ENDED AT: 1514	TOTAL VOLUME PURGED (gallons): 11.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1402			.16								
1408	.96		.16	150.75	8.10	21.41	1556	.71/8.3	4.80	clear	200.6
1413	.80	1.76	.16	151.26	8.03	21.93	1550	.54/6.4	10.1	clear	210.5
pH check 1418	0.80	2.56	.16	—	—	—	—	—	—	—	—
1422	0.64	3.2	.16	152.99	7.77	21.80	1546	0.85/10.1	3.87	clear	211.0
1427	0.80	4.0	.16	153.80	7.86	21.99	1541	0.76/9.2	3.86	clear	207.1
1432	0.80	4.80	.16	154.87	7.89	22.41	1536	0.89/10.8	4.54	clear	210.0
1437	0.80	5.60	.16	155.29	7.89	22.14	1530	1.03/12.5	3.06	clear	209.4
1442	0.80	6.40	.16	156.19	7.90	22.20	1523	1.20/14.5	4.32	clear	210.0
1447	0.80	7.20	.16	157.38	7.91	22.40	1514	1.47/17.5	4.62	clear	212.0
1452	0.80	8.00	.16	158.24	7.92	22.41	1515	1.89/22.9		clear	209.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1516	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 176	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Checked pH 7 buffer – 7.12

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: M114MW004	SAMPLE ID:	DATE: 5/5/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
~~1457~~	~~.80~~	~~8.80~~	~~.16~~								
1459	1.12	9.12	.16	159.24	7.94	22.27	1507	2.93/35.3	4.00	clear	211.1
1504	.80	9.92	.16	159.69	7.94	22.85	1502	2.64/32.2	3.94	clear	213.5
1509	.80	10.72	.16	160.64	7.95	22.00	1494	3.08/36.9	3.02	clear	208.0
1514	.80	11.52	.16	161.45	7.95	22.51	1420	3.05/36.6	3.03	clear	211.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1516	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: ~ 8 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130		SITE LOCATION: Melrose AFR	
WELL NO: MA01 MW001	SAMPLE ID: MA01 MW001		DATE: 5/9/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 142.58	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 161	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 161	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (gallons): 15.57

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210			.09								
1216	.54	.54	.09	143.38	7.80	21.05	3716	—	348	—	54.4
1221	.45	.99	.09	143.53	7.61	21.53	3595	5.30/61.1	403	~~clear~~	39.2
1226	.45	1.44	.09	143.76	7.59	22.09	3560	4.99/57.8	349	cloudy	29.5
1231	.45	1.89	.09	143.88	7.63	22.84	3589	5.41/63.3	298	cloudy	26.7
1241	.90	2.79	.09	144.35	7.61	22.42	3563	5.27/61.3	184	cloudy	28.1
1251	.90	3.69	.09	144.70	7.65	22.19	3554	5.57/64.8	95.3	cloudy	29.0
1301	.90	4.59	.09	145.28	7.35	22.85	3532	5.31/62.2	65.8	cloudy	30.3
1311	.90	5.49	.09	145.63	7.36	22.96	3517	5.24/61.5	53.2	slightly cloudy	34.1
1321	~~.90~~	~~6.39~~	~~.09~~	~~145.63~~	~~7.61~~	~~22.31~~	Lost flow				
1325	.68	7.07	.17	146.35	7.66	22.89	3478	5.41/70.3	53.2	slightly cloudy	59.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 161	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: units wrong move decimal three left

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Environmental & Engineering Services

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Office: (850) 243-0072
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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MA01 MW001	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1355	1.7	8.77	.17	147.48	7.66	22.95	3464	6.32/74.4	27.1	clear	76.9
1345	1.7	10.47	.17	148.22	7.69	23.27	3416	6.10/72.5	18.8	clear	57.4
1355	1.7	12.17	.17	148.75	7.75	23.07	3427	6.30/74.1	12.5	clear	40.5
1400	.85	13.02	.17	149.10	7.73	22.96	3394	6.34/74.8	11.7	clear	38.5
1405	.85	13.87	.17	149.16	7.77	24.35	3405	~~5.57/67.2~~	10.3	clear	35.3
1410	.85	14.72	.17	149.80	7.76	22.37	3377	6.12/74.1	10.6	clear	35.6
1415	.85	15.57	.17	150.40	7.73	22.95	3387	5.98/70.3	10.1	clear	34.5
							move decimal 3				
							or divide by 1000				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1416	SAMPLING ENDED AT:

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: DO @ 1407 6.49

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130	SITE LOCATION: Melrose AFR
WELL NO: MA01MW002	SAMPLE ID: MA01MW002
DATE: 5/16/11	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 142.44	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (~~15~~ 157 JMK feet – ~~.08~~ JMK feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (~~2.5~~ 0.0026 gallons/foot X ~~0.0026~~ 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 154	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 154	PURGING INITIATED AT: 830	PURGING ENDED AT: 933	TOTAL VOLUME PURGED (gallons): 5.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
830			.08								
858	2.24	2.24	.08	146.14	7.97	20.46	3215	4.24/47.6	3.44	clear	12.5
908	.80	3.04	.08	146.78	8.01	21.12	3204	4.49/50.9	1.92	clear	2.5
913	.40	3.44	.08	147.54	8.02	21.23	3193	4.43/50.5	1.68	clear	1.6
918	.40	3.84	.08	148.10	8.05	21.54	3192	4.57/52.3	2.20	clear	0.1
923	.40	4.24	.08	148.49	8.06	21.70	3182	4.39/50.3	1.75	clear	-0.3
928	.40	4.64	.08	148.95	8.06	21.80	3178	4.55/52.5	1.18	clear	-0.4
933	.40	5.04	.08	149.33	8.07	21.94	3174	4.77/54.9	1.13	clear	-1.5

move decimal
3215 should read 3.215

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 935	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 154	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130	SITE LOCATION: Malrose AFR	
WELL NO: MA01MW003	SAMPLE ID: MA01MW003	DATE: 5/10/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 143.43	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 175 feet) + 0.5 gallons = 1.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~140~~ 160	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~140~~ 160	PURGING INITIATED AT: 1217	PURGING ENDED AT: 1317	TOTAL VOLUME PURGED (gallons): 7.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1217			.13								
1227	1.3	1.3	.13	144.76	7.21	21.81	2857	6.53/74.9	5.65	clear	154.7
1237	1.3	2.6	.13	146.38	7.23	22.0	2793	6.04/69.2	2.50	clear	108.1
1247	1.3	3.9	.13	147.86	7.01	22.44	2751	5.98/69.3	3.56	clear	96.0
1257	1.3	5.2	.13	149.3	7.07	22.67	2737	5.89/69.1	1.57	clear	83.9
1307	1.3	6.5	.13	151.03	7.17	22.62	2719	5.83/68.7	1.43	clear	80.0
1317	1.3	7.8	.13	152.43	7.09	22.69	2741	5.66/66.1	2.21	clear	81.9
							move decimal				
							2857 should read 2.857				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 160	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)
SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130		SITE LOCATION: Melrose AFR	
WELL NO: MAOMW004	SAMPLE ID: MAOMW004		DATE: 5/10/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 142.78	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 170 feet) + 0.5 gallons = 1.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 159	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 159	PURGING INITIATED AT: 945	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 6.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
945			.08								
1016			.08		7.03	24.13	1849	5.73/68.2		clear	60.6
1020	lost		flow								
1033	gained		flow								
1035	2	3.2	.08	144.96	7.06	20.36	1835	7.35/81.6	34.1	clear	60.3
1040	.40	3.60	.08	145.69	7.08	20.89	1828	6.89/77.7	20.6	clear	74.7
1045	.40	4.00	.08	146.35	7.04	21.17	1837	7.09/80.3	15.2	clear	61.2
1050	.40	4.40	.08	147.36	7.01	21.41	1833	7.00/79.6	9.52	clear	57.6
1055	.40	4.80	.08	148.49	7.02	21.36	1833	6.76/77.0	6.63	clear	56.4
1100	.40	5.20	.08	149.78	7.08	21.48	1832	6.97/79.2	5.44	clear	54.9
1105	.40	5.60	.08	150.54	7.10	21.48	1834	6.90/78.6	5.47	clear	54.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1111	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 159	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: For all results for COND. move decimal 1.834

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO: MA01MW004	SAMPLE ID: / DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X (TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREV PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1100	.40	6.00	.08	151.45	7.08	21.43	1834	7.10/80.4	4.82	Clear	54.5
							should be 1.834				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 131		SITE LOCATION: Melrose	
WELL NO: MA02MW001D	SAMPLE ID:		DATE: 5/5/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 104.56	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (184.50 feet – 104.56 feet) X .65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.10~~ 0.5 gallons + (.00[illegible] gallons/foot X 185 feet) + ~~.10~~ 0.5 gallons = 1.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 170	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 170	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1249	TOTAL VOLUME PURGED (gallons): 10.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1050			.25								
1103	3.25		.25	108.38	8.06	19.62	1122	0.57/6.3%	30.5	clear	-16.9
1108	1.25	4.50	.25			19.70	1095	0.36/4.2%		clear	2.3
1115	Stopped		pump	burnt							
1148			.19	109.21	8.16	19.28	1101	.26/2.8	18.6	clear	-17.1
1200	2.28	6.78	.19	110.97	7.94	19.58	1085	.24/2.7	15.4	clear	-4.9
1205	.98	7.73	.19	112.68	7.95	19.63	1077	0.20/2.3%	13.2	clear	-10.5
1210	.95	8.68	.19	114.26	7.96	19.77	1069	0.17/1.9%	9.02	clear	-10.0
1215	.95	9.63	.19	115.53	7.94	19.83	1058	0.18/2.0%	6.17	clear	-7.0
1220	.95	10.58	.19	116.5	7.92	19.88	1060	0.16/1.8%	4.80	clear	-11.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1223	SAMPLING ENDED AT: 1249
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Field split 12 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: Melrose AFR	
WELL NO: MWL 6	SAMPLE ID: MWL 6		DATE: 5/18/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 118.59	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~NA~~ 0.5 gallons + (~~NA~~ 0.0026 gallons/foot X ~~NA~~ 145 feet) + ~~NA~~ 0.5 gallons = ~~NA~~ 1.38 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~NA~~ 135	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~NA~~ 135	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons): 47.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1100			.30								
1230		27	.30	119.09	7.55	20.0	981	3.59/39.6	49.1	cloudy	-6.8
1250	6	33	.30	119.12	7.48	19.97	981	3.73/41.7	19.4	slightly cloudy	-11.9
1310	6	39	.30	119.03	7.48	19.99	976	3.88/42.7	84.9	slightly	-13.8
1330	6	45	.30	119.04	7.47	20.24	976	3.98/44.1	47.2	clear	-16.3
1331			.05	Changed		purge		rate			
1340	.50	45.5	.05	118.71	7.49	21.34	982	3.50/39.6	38.6	clear	-18.0
1350	.50	46.0	.05	118.83	7.48	20.74	980	3.69/41.0	37.3	clear	-18.5
1400	.50	46.50	.05	118.75	7.49	20.84	982	3.46/38.8	28.5	clear	-19.0
1410	.50	47.0	.05		7.51	21.77	983	3.25/37.0	26.5	clear	-18.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS: Drillers removed ~20 gal w/bailer. DO TROR with lower 5"

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:
WELL NO: MWL 6	SAMPLE ID:	DATE: 5/18/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORT ODOR (describe)
1420	.50	47.50	.05	118.75	7.52	21.65	987	3.26/37.0	27.0	clear	-18.5
1425	.25	47.75	.05	118.75	7.50	21.53	984	3.48/38.8	25.7	clear	-18.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION: Melrose AFR	
WELL NO: MWQ2	SAMPLE ID: MWQ-2	DATE: 5/5/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 121.96	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (241 feet – 121.96 feet) X .65 gallons/foot = 77.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 819	PURGING ENDED AT: 930	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
819			.39								
845	10.1	10.1	.39	149.5	7.61	18.92	1264	.42 / 4.7%	2.71	clear	-23.9
847			.13								
~~855~~	~~1.3~~	~~11.4~~									
851			.16								
855	1.6	12.7	.16	153.0	7.69	18.93	1265	.39/4.4%	2.74	clear	-25.8
905	1.6	13.3	.16	156.5	7.74	19.15	1267	.54/6.1%	2.04	clear	-26.0
915	1.6	14.9	.16	159.20	7.76	20.17	1266	.40/4.6%	1.79	clear	-27.2
925	1.6	16.5	.16	161.73	7.79	19.63	1267	.39/4.4%	2.02	clear	-27.2
938				164.22							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 926	SAMPLING ENDED AT: 930
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Change of flow rate at 847, 851

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: Melrose AFR	
WELL NO: MWQ3	SAMPLE ID: MWQ-3		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – 50 feet) X 1.47 gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + 912 gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 835	PURGING ENDED AT: 922	TOTAL VOLUME PURGED (gallons): 229.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
835			6.2								
842	43.4		6.2		7.35	18.41	0.980	6.19/66.2	0.24	clear	-14.9
847	31	74.4	6.2		7.46	18.44	0.980	6.04/64.7	0.13	clear	-16.4
852	31	105.4	6.2		7.47	18.43	0.980	6.17/65.8	0.19	clear	-16.8
857	31	136.4	6.2		7.48	18.43	0.980	6.20/66.2	0.18	clear	-17.6
902	31	167.4	6.2		7.48	18.43	0.979	6.23/66.7	0.10	clear	-19.1
907	31	198.4	6.2		7.48	18.43	0.979	6.24/66.6	0.22	clear	-20.1
912	31	229.4	6.2		7.48	18.42	0.979	6.23/66.6	0.17	clear	-20.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0922
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Pressure tank ~55 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Environmental & Engineering Services

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Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: Melrose AFR	
WELL NO: MWQ4	SAMPLE ID: MWQ-4		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (46.5 feet – 25.09 feet) X 1.47 gallons/foot = 32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~NA~~ gallons + (~~NA~~ gallons/foot X NA feet) + NA gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 959	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (gallons): 110.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
959			4.1								
1007	32.8		4.1	27.45	7.13	16.21	.699	5.75/58.6	1.44	clear	4.2
1012	20.5	53.3	4.1	30.11	7.15	16.19	.700	5.97/60.8	1.44	clear	12.4
1017	20.5	73.8	4.1	34.38	7.16	16.16	.707	6.01/61.2	0.26	clear	17.1
					7.16	16.17	.702	5.89/60.0	—	clear	20.0
		SAMPLE 1018-1025									
1026				42.94							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1018	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION: Melrose AFS
WELL NO: MWQ5	SAMPLE ID: / DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – 50 ? feet) X 1.47 gallons/foot = 228.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1200	TOTAL VOLUME PURGED (gallons): 380

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1120			9.5								
1130	95	95	9.5		7.16	17.60	.792	5.82/61.3	0.30	clear	-1.6
1135	47.5	142.5	9.5		7.18	17.58	.791	5.74/60.1	0.10	clear	-2.6
1140	47.5	190.0	9.5		7.19	17.58	.791	5.67/59.4	0.34	clear	-3.5
1145	47.5	237.5	9.5		7.21	17.57	.792	5.70/59.8	0.09	clear	-0.10
1150	47.5	285	9.5		7.22	17.57	.793	5.73/60.1	0.31	clear	0.50
1155	47.5	332.5	9.5		7.22	17.56	.793	5.71/60.0	0.20	clear	0.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1157	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

90 NW Beal Parkway, Suite A-2
Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: Melrose AFR	
WELL NO: MW-Q-6	SAMPLE ID: MWQ6		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (50? (out thickness) feet – feet) X 1.47 + 100 gallons/foot = 173.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1315	TOTAL VOLUME PURGED (gallons): 350

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1240			10								
1250	100		10		7.20	18.03	.725	5.95/63.0	0.64	clear	-11.4
1255	50	150	10		7.21	18.06	.726	5.90/62.5	0.23	clear	-10.2
1300	50	200	10		7.23	18.05	.726	5.84/61.8	0.15	clear	-9.5
1305	50	250	10		7.23	18.06	.726	5.87/62.2	0.37	clear	-9.11
1310	50	300	10		7.25	18.05	.726	5.83/61.6	0.27	clear	-9.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1312	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melzoso AFR		SITE LOCATION: Melrose AFB	
WELL NO: MWQ-7	SAMPLE ID: MWQ-7		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): ~~NA~~ 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1332	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 345

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1332			15								
1337	75		15		7.14	18.27	.972	6.88/72.9	0.43	clear	-3.0
1340	45	120	15		7.15	18.49	.969	6.65/71.1	0.59	clear	-8.4
1343	45	165	15		7.19	18.48	.970	6.58/70.4	1.27	clear	-8.4
1346	45	210	15		7.21	18.46	.970	6.58/70.3	0.44	clear	-7.1
1349	45	255	15		7.22	18.43	.971	6.60/70.5	0.31	clear	-6.2
1352	45	300	15		7.22	18.41	.971	6.60/70.5	0.17	clear	-4.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BS JK/Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Moi 2001 AFR		SITE LOCATION: Melrose AFR	
WELL NO: MWQ-[redacted] 10 SS	SAMPLE ID: MWQ-[redacted] 10 SS		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = 128.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1459			6.1								
1504	30.5		6.1		6.94	17.50	.844	7.19/71.9	0.17	clear	-12.7
1507	18.3		6.1		6.96	17.49	.845	6.68/70.0	2.06	clear	-11.5
1510	18.3	67.1	6.1		6.97	17.64	.846	6.67/70.1	1.40	clear	-9.6
1513	18.3	85.4	6.1		6.99	17.81	.845	6.62/69.9	0.91	clear	-8.4
1516	18.3	103.7	6.1		7.01	17.95	.846	6.62/70.1	0.69	clear	-7.5
1519	18.3	122	6.1								
1522	18.3	140.3	6.1		7.03	18.05	.846	6.65/70.5	1.32	clear	-4.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1523	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION:
WELL NO: MWQ 14	SAMPLE ID:	DATE: 5/13/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 66.40	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

N/A

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1250	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1140			.20								
1155	3.00	3.00	.20	69.1	7.93	19.04	4171	3.80/41.4	4.51	clear	39.5
1205	2.00	5.00	.20	70.93	7.95	18.92	4195	3.95/43.1	3.73	clear	31.6
1215	2.00	7.00	.20	72.61	7.97	19.97	4198	3.76/40.9	3.76	clear	28.3
1220	1.00	8.00	.20	73.49	7.98	19.05	4196	3.88/42.5	3.00	clear	27.0
1225	1.00	9.00	.20	74.50	7.98	19.06	4197	3.83/41.8	2.66	clear	25.9
1230	1.00	10.00	.20	75.45	7.99	19.18	4197	3.81/41.8	2.29	clear	25.0

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1231	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): 120	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: MWQ 18		SITE LOCATION: Melrose AFR	
WELL NO: [redacted]	SAMPLE ID:		DATE: 5/12/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 101.19	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (155 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1150			.17		c						
1156	1.07	1.07	.17	101.24	8.65	21.85	.808	0	14.0	clear	27.0
* ~~1201~~	~~.85~~	~~1.87~~	~~.17~~		~~8.44~~	~~22.60~~	~~.778~~	~~0~~		~~clear~~	~~17.9~~
1206	1.7	2.72	.17	101.28	7.67	23.09	.756	6.14/70.7	61.9	clear	36.2
1211	.85	3.57	.17	101.30	7.43	22.23	.770	6.05/69.8	38.3	clear	40.5
1216	.85	4.42	.17	101.30	7.44	21.67	.772	6.17/70.3	25.6	clear	131.2
1221	.85	5.27	.17	101.30	7.42	21.26	.769	6.01/67.7	13.0	clear	109.1
1226	.85	6.12	.17	101.30	7.43	21.25	.767	6.08/68.7	6.26	clear	91.6
1231	.85	6.97	.17	101.30	7.41	21.32	.765	5.93/67.1	3.79	clear	84.4
1236	.85	7.82	.17	101.33	7.44	21.25	.763	5.96/67.3	2.50	clear	81.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 147	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: * Recal DO

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MWQ19	SAMPLE ID:	DATE: 5/12/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 99.41	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0870			.22								
918			.22	132.57	8.04	17.88	7373	.12/1.3	7.53	clear	+20.3
923			.22	136.59	8.05	17.93	7353	0.10/1.1	5.40	clear	-133.0
928			.22	141.73	8.12	17.98	7315	.09/1.0	5.14	clear	-136.4
933			.22	144.95	8.14	17.98	7394	0.09/1.0	5.50	clear	-146.4
938			.22	149.01	8.20	17.98	7412	.08/0.9	4.30	clear	-151.5
943			.22	152.25	8.22	18.09	~~7289~~	.09/1.0	4.77	clear	-153.8
948			.22	154.84	8.27	18.06	7353	0.08/0.9	6.46	clear	-160.1
							Divide by 1000				
							7.353				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 950	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = St Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION: Melrose
WELL NO: MW20	SAMPLE ID:	DATE: 5/17/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 83.08	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1115			~~.09~~	~~89.12~~	~~7.82~~	~~21.02~~	~~1734~~	~~0.18/5.7~~	~~269~~	~~clear~~	~~-8.8~~
1141	2.34		.09	89.12	7.82	21.02	1734	0.48/5.7	269	cloudy	-8.8
1151	.90	3.24	.09	92.45	7.83	21.12	1728	0.37/4.4	319	cloudy	-13.3
1201	.90	4.14	.09	96.02	7.81	20.79	1715	0.29/3.4	184	cloudy	-15.9
1211	.90	5.04	.09	98.83	7.80	21.19	1696	0.28/3.4	92.4	cloudy	-18.9
1221	.90	5.94	.09	101.98	7.81	22.62	1677	0.23/2.81	35.7	cloudy	-21.8
1231	.90	6.84	.09	104.67	7.79	20.98	1679	.22/2.6	24.9	clear	-18.4
1241	.90	7.74	.09	107.82	7.79	22.01	1668	.21/2.5	19.6	clear	-19.5
1251	.90	8.64	.09	110.40	7.81	20.13	1668	.19/2.3	13.1	clear	-21.6
1301	.90	9.54	.09	112.70	7.82	22.97	1660	.19/2.3	11.4	clear	-23.3

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: MW Q 20	SAMPLE ID:	DATE: 5/17/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ OGP (describe)
1311	.90	10.44	.09	115.03	7.81	22.22	1696	0.18/2.2	13.8	clear	-23.3
1321	.90	11.34	.09	117.00	7.83	22.93	1706	0.17/2.3	12.4	clear	-24.0

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1322	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO: MWQ21	SAMPLE ID:	DATE: 5/11/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 45.26	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (66.30 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1155	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1155			.12								
1207	.84	.84	.12	45.28	7.53	18.48	1807	-0.15/-1.6	71.8	clear	37.2
1212	1.2	2.04	.12	45.29	7.46	19.06	1776	-0.11/-1.1	38.5	clear	14.8
1222	1.2	3.24	.12	45.28	7.58	18.93	1746	0/0	94.4	clear	8.3
1232	1.2	4.44	.12	45.29	7.73	19.01	1727	0/0	40.8	clear	3.6
1242	1.2	5.64	.12	45.29	7.66	19.16	1723	0/0	21.3	clear	2.3
1252	1.2	6.84	.12	45.29	7.61	19.24	1717	0/0	12.5	clear	0.4
1302	1.2	8.04	.12		7.79	19.31	1717	0/0	8.71	clear	0.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 60	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW022	SAMPLE ID:	DATE: 5/11/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 42.41	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (154.7 feet – 42.41 feet) X .37 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 904	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
904			.47	~~52.86~~							
924	9.4	9.4	.47	52.86	7.07	17.49	3164	0.35/3.7	8.88	clear	-32.1
929	2.35	11.75	.47	53.41	6.94	17.33	2270	0.22/2.2	5.77	clear	-23.2
939	4.7	16.45	.47	54.12	6.85	17.32	1961	0.16/1.7	4.07	clear	-25.4
949	4.7	21.15	.47	54.60	6.91	17.56	1929	0.14/1.5	2.12	clear	-26.8
959	4.7	25.85	.47	54.69	6.91	17.54	1907	0.12/1.3	2.27	clear	-27.0
1009	4.7	30.55	.47	54.86	6.96	17.60	1880	0.11/1.1	1.98	clear	-27.1
1019	4.7	35.25	.47	55.09	7.12	17.81	1867	0.09/1.0	1.51	clear	-33.2
1029	4.7	39.95	.47	55.25	7.03	17.83	1847	0.08/.80	0.96	clear	-35.3
1039	4.7	44.65	.47	55.61	7.08	1802	1831	0.08/.80	1.03	clear	-33.0
1049	4.7	49.35	.47	55.62	7.18	1809	1820	0.07/.80	0.75	clear	-40.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:
MW021 45.26

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MWQ22	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1054	2.35	51.7	.47	55.75	7.11	18.15	1816	0.07/0.7	0.65	Clear	-38.5
1059	2.35	54.05	.47	55.80	7.14	18.14	1809	0.07/0.7	0.87	Clear	-39.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Environmental & Engineering Services

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: MELROSE AFR	
WELL NO: MWQ-23	SAMPLE ID: MWQ-23		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 740	PURGING ENDED AT: 826	TOTAL VOLUME PURGED (gallons): 49.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0740			1.07				mS/cm	% / mg/L			
0806	27.82	27.82	1.07		8.30	19.87	18.44	1.9 / 0.17	1.72	Clear/none	-60.6
0816	10.70	38.52	1.07		8.30	19.95	1.855	1.9 / 0.17	1.51	Clear/none	-62.2
0826	10.70	49.22	1.07		8.30	19.97	1.87	2.6 / 0.23	2.13	Clear/none	-64.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart / Trinity AOC	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0840	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .45 / 2 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL			8260B	NA	1.07
	2	AG	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & D.S.		
	2	PE	1L	—			6020 Filt. Met.		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS: Livestock Well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)		SITE LOCATION: Melrose AFR	
WELL NO: M114MW001	SAMPLE ID: M114MW001		DATE: 9/30/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 170.3 feet to 190.3 feet	STATIC DEPTH TO WATER (feet): 151.71	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~190.3~~ 207.5 feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (~~0.5~~ 0.0026 gallons/foot X ~~0.0026~~ 207.5 feet) + ~~207.5~~ 0.5 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 175	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 175	PURGING INITIATED AT: 1103	PURGING ENDED AT: 1235	TOTAL VOLUME PURGED (gallons): 15.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1103			.14		lost	flow	mS/cm	%	mg/L			
1123			0.14									
~~1153~~	~~4.2~~	~~4.2~~	~~.20~~									
1130	2.5	2.5	.20	155.45	8.21	21.90	12.53			5.45	clear/none	-8.4
1135	1.0	3.5	.20	157.22	8.10	22.26	12.28	6.8	0.57	4.62	clear/none	1.0
1140	1.0	4.5	.20	158.70	8.10	22.24	12.09	11.6	0.96	4.37	clear/none	7.3
1145	1.0	5.5	.20	159.97	8.10	22.58	11.91	18.1	1.50	3.32	clear/none	15.1
1150	1.0	6.5	.20	161.02	8.11	22.58	11.76	21.9	1.82	3.05	clear/none	19.9
1155	1.0	7.5	.20	162.39	8.13	22.77	11.57	23.9	1.98	2.46	clear/none	25.0
1200	1.0	8.5	.20	163.00	8.15	22.37	11.74	27.8	2.33	2.60	clear/none	29.8
1205	1.0	9.5	.20	163.92	8.15	22.41	11.13	31.1	2.60	2.61	clear/none	34.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stout Trinity ADC	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1236	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 175	TUBING MATERIAL CODE: 1	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: .2 / .45 µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL			8260B	ESP	.20
	2	AG	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	150mL	—			6860 - Filt & unfilt		
	1	PE	500mL	—			7196A		
	1	PE	500mL				300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C
1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:

WELL NO: M 114 MW001	SAMPLE ID:	DATE: 9/30/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210	1.0	10.5	.20	165.47	8.14	22.46	10.87	43.3%	3.62	2.25	clear/none	40.4
1215	1.0	11.5	.20	165.97	8.14	22.68	10.86	41.5	3.44	1.86	clear/none	41.8
1220	1.0	12.5	.20	166.89	8.13	22.91	10.87	44.8	3.72	2.56	clear/none	43.8
1225	1.0	13.5	.20	168.05	8.12	23.01	10.87	52.2	4.32	3.78	clear/none	45.7
1230	1.0	14.5	.20	169.00	8.11	22.96	10.89	50.8	4.21	4.37	clear/none	47.2
1235	1.0	15.5	.20	169.74	8.11	23.08	10.95	50.6	4.19	5.10	clear/none	47.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Office: (850) 613-6800
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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)		SITE LOCATION: Melrose AFR	
WELL NO: M114MW002	SAMPLE ID: M114MW002		DATE: 10/3/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~183.3~~ MK feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 180	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 180	PURGING INITIATED AT: 0827	PURGING ENDED AT: 931	TOTAL VOLUME PURGED (gallons): 12.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0827			.20	152.11			mS/cm	%	mg/L			
0846		3.8	.20	156.30	7.82	20.8	11.24	24.5	2.08	30.1	clear/none	-11.1
0851	1.0	4.8	.20	157.56	7.86	20.83	11.03	23.3	2.01	23.6	clear/none	-13.0
0856	1.0	5.8	.20	158.97	7.89	20.96	11.77	27.3	2.37	18.6	clear/none	-6.8
0901	1.0	6.8	.20	160.59	7.91	20.96	10.65	34.1	2.94	14.6	clear/none	2.1
0906	1.0	7.8	.20	161.85	7.91	21.09	10.55	40.6	3.48	10.8	clear/none	12.7
0911	1.0	8.8	.20	163.50	7.94	21.14	10.49	44.1	3.78	9.51	clear/none	20.1
0916	1.0	9.8	.20	164.99	7.95	21.27	10.50	45.9	3.92	8.42	clear/none	27.8
0921	1.0	10.8	.20	164.89	7.96	21.33	10.50	46.6	3.98	7.56	clear/none	33.4
0926	1.0	11.8	.14	165.40	7.97	21.44	10.52	47.7	4.06	8.24	clear/none	40.1
0931	.7	17.5	.14	165.90	7.98	21.64	10.53	47.9	4.06	8.06	clear/none	44.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart J. Kramer Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0932	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): 180	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .2 / .45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	—	—	8260B	ESP	.20 gpm
	2	AG	1L		—	—	8330		
	2	PE	250mL	HNO3	—	—	6010C Total & Diss		
	2	PE	150mL		—	—	6860 Filt & Unfilt		
	1	PE	500mL		—	—	7196A		
	1	PE	500mL		—	—	300.0		

REMARKS: Flow changed from .2 to ~ .14

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C

1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)		SITE LOCATION: Melrose AFR	
WELL NO: M114MW003	SAMPLE ID: M114 MW003		DATE: 10/3/14

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 151.99	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~184.5~~ MW feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 180	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 180	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1145	TOTAL VOLUME PURGED (gallons): 9.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1030			.12				mS/cm	%	mg/L			
1100	3.6	3.6	.12	162.08	8.12	21.21	12.69	27.5	2.33	23.4	clear/none	34.0
1100	1.2	4.8	.12	158.8	8.12	21.49	12.72	27.4	2.31	35.9	clear/none	40.8
1115	0.6	5.4	.12	160.12	8.14	21.49	12.76	30.9	2.61	27.8	clear/none	45.0
1120	0.6	6.0	.12	161.22	8.14	21.63	12.75	28.9	2.43	24.9	clear/none	47.5
1125	0.6	6.6	.12	162.54	8.15	21.72	12.75	27.9	2.33	20.4	clear/none	49.8
1130	0.6	7.2	.12	163.88	8.14	21.72	12.75	27.2	2.28	14.9	clear/none	52.9
1135	0.6	7.8	.12	164.60	8.13	22.07	12.89	26.3	2.20	15.4	clear/none	53.5
1140	0.6	8.4	.12	165.30	8.13	21.92	12.83	26.6	2.23	32.9	clear/none	55.5
1145	0.6	9.00	.12		8.13	22.06	12.88	26.6	2.22	23.5	clear/none	56.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart J. Kramer / Trinity	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1146	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 180	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: .2 / .45 µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	—	—	8260B	ESP	.12
	2	AG	1L	—	—	—	8330		
	2	PE	250mL	HNO_3	—	—	6010C Total & Diss		
	2	PE	150mL		—	—	6860 Filtered & Unfiltered		
	1	PE	500mL	—	—	—	7196A		
	1	PE	500mL	—	—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)		SITE LOCATION: Melrose AFR	
WELL NO: M114MW004	SAMPLE ID: M114MW004		DATE: 9/30/14

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 164 feet to 184 feet	STATIC DEPTH TO WATER (feet): 150.04	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~184~~ JMK feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (~~0.05~~ JMK 0.0026 gallons/foot X 208 feet) + 0.5 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 180	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 180	PURGING INITIATED AT: 0830	PURGING ENDED AT: 955	TOTAL VOLUME PURGED (gallons): 6.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0830			.08				mS/cm	%	mg/L			
0900	2.4	2.4	.08	154.95	8.06	20.26	12.66	9.6	0.83	18.90	clear/none	19.3
0910	0.8	3.2	.08	156.29	8.11	20.33	12.61	11.3	0.97	20.40	clear/none	27.5
0930	1.6	4.8	.08	159.48	8.07	21.26	12.66	15.5	1.31	14.1	clear/none	39.6
0940	0.8	5.6	.08	160.74	8.05	21.68	12.69	17.2	1.45	10.3	clear/none	49.1
0950	0.8	6.4	.08	164.70	8.05	21.35	12.59	18.1	1.53	10.4	clear/none	57.9
0955	0.4	6.8	.08	173.01	8.04	21.61	12.61	18.7	1.57	~~13.5~~	clear/none	63.3
										8.05	~~n/a~~	~~65.2~~ JMK 9-30-14

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Jonathan Kramer / Trinity	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): 180	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: .2 µm .45
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	—	—	8260B	ESP	.08
	2	AG	1L		—	—	8330		
	2	PE	250mL	HNO3	—	—	6010C Total ±0.35		
	2	PE	150mL		—	—	6860 Filtered & Unfiltered		
	1	PE	500mL		—	—	7196A		
	1	PE	500mL		—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C
1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01 MW001	SAMPLE ID: MA01MW001		DATE: 9/27/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 149.46 feet to 169.40 feet	STATIC DEPTH TO WATER (feet): 142.87	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (169.40 feet – 142.87 feet) X .65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.25~~ 0.5 gallons + (.0026 gallons/foot X 166 feet) + ~~.25~~ 0.5 gallons = ~~.93~~ 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 158	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 158	PURGING INITIATED AT: 0852	PURGING ENDED AT: 932	TOTAL VOLUME PURGED (gallons): 7.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0852			.11				mS/cm	%	mg/L			
0852	3.3	3.3	.11	147.13	8.01	20.68	3.013	65.2	5.83	12.7	Clear/none	1.6
0902	1.1	4.4	.11	147.91	8.06	20.94	2.97	66.2	5.86	8.47	Clear/none	23.5
0912	1.1	5.5	.11	149.46	8.09	20.80	2.97	66.5	5.89	6.60	Clear/none	36.8
0922	1.1	6.6	.11	149.57	8.10	20.78	2.90	69.0	6.18	5.16	Clear/none	46.2
0932	1.1	7.7	.11	151.79	8.11	20.91	2.90	69.6	6.15	6.02	Clear/none	53.9

WELL CAPACITY (Gallons Per Foot): ~~0.75" = 0.02~~; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Southern Waters/Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0933	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): 158	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .40 µm .20
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	—	—	8260B	ESP	.11 gpm
	2	AG	1L	—	—	—	8330		
	2	PE	250mL	HNO_3	—	—	6010C		
	2	PE	150mL	—	—	—	6860 Filtered & Unfiltered		
	1	PE	500mL	—	—	—	7196A		
	1	PE	500mL	—	—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL		2320B, 2540C
1	PE	1L	NAOH	9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01 MW002	SAMPLE ID: MA01 MW002		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 142.49	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~160~~ 300 feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 140	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210			0.08								
1240	2.4	2.4	0.08	147.14	8.33	24.10	2.67	64.9/5.47	7.91	~~None~~/~~None~~	50.9
1245	0.4	2.8	0.08	147.55	8.35	23.07	2.60	63.7/5.41	6.99	" "	50.1
1250	0.45	3.2	~~0.08~~ 0.10	147.93	8.34	23.33	2.61	63.0/5.29	7.35	" "	49.6
1255	0.45	3.5	~~0.08~~ 0.10	149.50	8.35	22.59	2.59	69.5/5.94	6.45	" "	50.2
1300	0.5	4.0	0.10	149.24	8.34	22.81	2.58	68.3/5.84	4.60	" "	51.1
1305	0.5	4.5	0.10	149.78	8.32	22.58	2.57	67.4/5.8	4.25	" "	52.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Samantha Kramer Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1306	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 140	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL			8260B	ESP	.08
	2	AG	1L				8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	250mL				6860 Filtered & Unfiltered		
	1	PE	500mL				7196A		
	1	PE	500mL				300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL — 2320B, 2540C
1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01MW003	SAMPLE ID: MA01MW003		DATE: 9/27/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 153 feet to 173 feet	STATIC DEPTH TO WATER (feet): 143.72	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (~~173~~ JMX ~~143.80~~ feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = ~~.25~~ 0.5 gallons + (.0026 gallons/foot X 175 ~~.25~~ feet) + ~~.25~~ 0.5 gallons = ~~.95~~ 1.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~160~~ 160	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~160~~ 160	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 11.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1040			.11		Started Purge						
1050	1.1	1.1	.11	144.94	8.09	20.92	2.68	6.26	4.55	Clear/none	-18.2
1100	1.1	2.2	.11	146.80	8.08	21.43	2.70	6.02	3.44	Clear/none	1.3
1110	1.1	3.3	.11	148.16	8.09	22.00	2.71	5.73	3.26	Clear/none	20.8
1120	1.1	4.4	.11	148.00	8.09	22.41	2.71	5.64	2.65	Clear/none	33.8
1130	1.1	5.5	.11	148.75	8.10	22.77	2.71	5.84	6.76	Clear/none	42.3
1140	1.1	6.6	.11	149.55	8.09	23.78	2.73	5.55	1.62	Clear/none	50.8
1150	1.1	7.7	.11	149.98	8.08	24.63	2.78	5.51	1.91	Clear/none	54.8
1200	1.1	8.8	.11	150.43	8.07	24.67	2.78	5.63	4.19	Clear/none	~~60.6~~ 64.6
1210	1.1	9.9	.11	150.96	8.09	23.75	2.76	5.69	1.50	Clear/none	66.8
1220	1.1	11.0	.11	151.58	8.07	23.27	2.65	5.67	1.39	Clear/none	73.3

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart J. Kramer TRINITY	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1221	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): ~~160~~ 160	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: .45 µm .20
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL	—	—	8260B	ESP	.11 gpm
	2	AG	1L	—	—	—	8330	ESP	.11 gpm
	2	PE	250mL	HNO3	—	—	6010C Total & Diss	ESP	.11 gpm
	2	PE	~~150~~ mL	—	—	—	6860 Filt & Unfilt'd	ESP	.11 gpm
	1	PE	500mL	—	—	—	7196A	ESP	.11 gpm
	1	PE	500mL	—			300.0	ESP	.11 gpm

REMARKS: TD = 173 MS, MSD

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL
1 PE 1L NaOH

2320B, 2540C
9012A

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

1002 N. Eglin Parkway
Shalimar, FL 32579
Office: (850) 613-6800
Fax: (850) 613-6764

GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01MW004	SAMPLE ID: MA01MW004		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 149 feet to 169 feet	STATIC DEPTH TO WATER (feet): 143.11	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.25~~ 0.5 JMB gallons + (.0026 gallons/foot X 170 feet) + ~~.25~~ 0.5 JMB gallons = ~~.97~~ 1.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 160	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 160	PURGING INITIATED AT: 940	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 10.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0940			.13				mS/cm	%	mg/L			
0950	1.3	1.3	.13	144.68	8.16	20.80	1.649	67.3	5.99	8.16	clear/none	1.2
1010	2.6	3.9	.13	146.85	8.11	21.18	1.659	72.2	6.37	6.16	clear/none	32.4
1020	1.3	5.2	.13	147.78	8.12	21.60	1.676	72.4	6.31	3.83	" "	47.4
1030	1.3	6.5	.13	148.43	8.13	22.54	1.708	66.4	5.71	3.20	" "	59.3
1050	2.6	7.8	.13	150.25	8.13	22.30	1.71	75.2	6.54	2.53	" "	73.4
1100	1.3	9.1	.13	152.05	8.10	21.85	1.68	72.8	6.36	2.15	" "	79.1
1105	.65	9.75	.13	152.26	8.11	21.83	1.68	74.4	6.49	2.36	"	81.5
1110	.65	10.40	.13	153.18	8.11	21.76	1.681	74.9	6.51	2.22	" "	83.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Trinity ADC	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 160	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: .45 µm 2
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL			8260B	ESP	.13
	2	AG	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	150mL	—			6860 Filt & Unfilt		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

143.11

1 PE .500mL —
1 PE 1L NAOH

2320B, 2540C
9012A

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

1002 N. Eglin Parkway
Shalimar, FL 32579
Office: (850) 613-6800
Fax: (850) 613-6764

GROUNDWATER SAMPLING LOG

SITE NAME: MA02 (SWMU-131)		SITE LOCATION: Melrose	
WELL NO: MA02 MW601D	SAMPLE ID: MA02 MW601D		DATE: 9/28/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): ¼	WELL SCREEN INTERVAL DEPTH: 167 feet to 187 feet	STATIC DEPTH TO WATER (feet): 105.63	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (187 JMN feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= .25 gallons + (.0026 gallons/foot X 180 feet) + .25 gallons = .96 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 170	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 170	PURGING INITIATED AT: 827	PURGING ENDED AT: 1020	TOTAL VOLUME PURGED (gallons): 15.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0827			.13	started purge			mS/cm	%	mg/L			
0847				111.58	slowed		pump		down			
0853		~5 gal	.13	112.96	8.01	19.86	9.26	2.0	0.17	5.99	clear/none	-22.0
0903	1.1	6.1	.13	113.68	8.00	19.85	9.17	2.2	0.19	5.99	clear/none	-15.8
0913	1.1	7.2	.13	114.50	8.02	20.05	9.07	2.4	0.21	3.44	clear/none	-9.9
0923	1.1	8.3	.13	114.56	7.89	19.95	9.03	2.7	0.24	3.20	clear/none	-3.9
0933	1.1	9.4	.13	116.29	8.04	20.41	9.08	2.9	0.25	2.96	clear/none	-1.5
0944	1.1	10.5	.13		lost flow							
1000	gained flow		.13									
1010			.13		8.02	20.50	8.93	0.96	0.08		clear/none	32.5
1020	4.68	15.18	.13		8.01	20.92	8.99	3.5	.29		clear/none	27.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Melissa Hoover Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1028	SAMPLING ENDED AT: 1109
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 2 .45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCL			8260B	ESP	.13 gpm
	2	AG	1L	—			8330		
	2	PE	250mL	HNO_3			6010C Total & Diss		
	2	PE	250	—			6860 Filtered & Unfiltered		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS: Dup & Split @ 1028

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

Chain of Custodies

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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: jkramer@trinityadc
Phone#: 850 243 0072
Sampler(s) Name(s) (Printed)

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI Water	MeOH	Dissolved Metals	Total Metals	Cyanide	Perchlorate	CrVI	AIKT/TS	Cl/SO4/NO3/NO2					Matrix Codes / LAB USE ONLY
	MWQ 22	5/11/11	1701	BS	GW	6				X	X					X	X	X	X	X	X	X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1 R. Stewart	5/11/11 1500	2	3		4
Relinquished by:	**Date Time:**	**Received By:**	**Relinquished by:**	**Date Time:**	**Received By:**
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # PAGE 1 OF 1

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beach Street
City: Fort Lauderdale State: FL Zip: 33308
Project Contact: S. Krumm E-mail: skrumm@trinity
Phone#: 954-537-0022
Sampler(s) Name(s) (Printed)

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Total Metals	Total Metals	Cyanide	Reactivity	Cyanide	Airtits	Chlorinated Acids					LAB USE ONLY
	MWQ 22	5/11/11	1:15	RS	GW	6				X	X					X	X	X	X	X	X	X					

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1 R. Sheard	5/11/11 1:50	2	3		4
Relinquished by:	**Date Time:**	**Received By:**	**Relinquished by:**	**Date Time:**	**Received By:**
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCL)	Alk/TS	Cl/SO4 /NO3 /NO2	CrVI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				
	5/10/11				TB7		3						X							
					TB8		3						X							

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X						
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X						

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/11/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALKTS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/12/11	950		X	MWQ19		7	X	X	X	X	X	X	X						/
GW	5/12/11	1240		X	MWQ18		7		X	X	X	X	X	X						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/12/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Extra volume labled "Field filtered". This was not filtered, lab needs to filter. MWQ18

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT/TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/13/11	1231		x	MWQ14		7	x	x	x	x	x	x	x						
GW	5/13/11	1231		x	MWQ14-MS		7	x	x	x	x	x	x	x						
GW	5/13/11	1231		x	MWQ14-MSD		7	x	x	x	x	x	x	x						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/13/11	1440
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Alkalinity/TDS	Perchlorate	Cyanide (Total Wad)	Hexavalent Chromium	Cl/SO4/NO3/NO2	Total Metals (mL HNO3)	Dissolved Metals (mL HNO3)					Remarks:	Lab ID
GW	5/3/11	0915		X	MWQ-3		7	X	X	X	X	X	X	X						/
GW	5/3/11	1018		X	MWQ-4		7	X	X	X	X	X	X	X						
GW	5/3/11	1157		X	MWQ-5		7	X	X	X	X	X	X	X						
GW	5/3/11	1157		X	MWQ-5-Dup		7	X	X	X	X	X	X	X						
GW	5/3/11	1312		X	MWQ-6		7	X	X	X	X	X	X	X						
GW	5/3/11	1353		X	MWQ-7		7	X	X	X	X	X	X	X						
GW	5/3/11	1523		X	MWQ-10		7	X	X	X	X	X	X	X						
GW	5/3/11	1523		X	MWQ-10-MS		7	X	X	X	X	X	X	X						
GW	5/3/11	1523		X	MWQ-10-MSD		7	X	X	X	X	X	X	X						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SDG: Annual

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	CL/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X				
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X				
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X				
	5/5/11	926			TB1		3													
	5/5/11	926			TB2		3													

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal PKW Suite A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: JKramer@trinity ad
Phone#: 850-243-0072
Sampler(s) Name(s) (Printed): B. Stewart S. Kramer

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Total Metals	Dissolved Metals	CrVI	Cyanide	Perchlorate	CL/SO4/NO3/NO2	ALKT/TS	VOC	Explosives			Lab Use Only
	MA02MW001D	5/5/11	1223	BS	GW	11				X	X					X	X	X	X	X	X	X	X	X			
	TB3	5/5/11	926			3																					

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	5/5/11 1500	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	SO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				
	5/9/11				TB6		3					X								
	5/9/11				TB7		3					X								

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Su. A2
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	Alk/TS	VOC (HCl) 8260			Remarks:	Lab ID
GW	5/6/11	1135		X	M114 MW007		12	X	X	X	X	X	X	X	X	X				
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X				
GW	5/6/11	1430		X	M114MW003		12	X	X	X	X	X	X	X	X	X				
	5/6/11				TB4		3									X				
	5/6/11				TB5		3									X				

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/6/11	1523
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOCs (HCL)			Remarks:	Lab ID
GW	5/16/11	935		X	MA01 MW002		12	X	X	X	X	X	X	X	X	X				
GW	5/16/11	1110		X	MWQ23		12		X	X		X	X	X	X	X				
					TB9		3									X				

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/16/11	1539
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: MWQ23 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ste
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Perchlorate	CrVI	Cyanide (NaOH)	ALKT/TS	CL/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/17/11	1322		X	MWQ-20		7	X	X	X	X	X	X	X						
GW	5/17/11	1322		X	MWQ-20-Dup		7	X	X	X	X	X	X	X						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/17/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL, 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	GW1	ALKT/TS	CL/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/18/11	1430		X	MWL6		7													
W	5/18/11	1030		X	EB2		7													

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/18/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

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Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity
Address: 1002 N Eglin Pkwy
City: Shalimar State: FL Zip: 32579
Project Contact: J Kramer E-mail:
Phone#:
Sampler(s) Name(s) (Printed): M Hoover B Stuart

Project Information

Project Name: Melrose AFR
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VB/60 TCL	VC 8330A - Bed	METAL-total	METAL-DISS	AK GRO SVH TDS SO4 NO2 NO3	CN	Perchlorate to Dmg Total	Perchlorate to Dmg Dis			
	MA02 MW001D	9/28/11	1015	MH BS	WG	11		X	X	X	X					X	X	X	X	X	X	X	X			

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: _____

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:

Client: Trinity Analysis & Development
Address: [illegible] Highway
Sherwood, FL 32579
Contact: J. Kramer
Phone: 334-613-6800
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Sem
Sampled By: B. Stewart T. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (EPA 314.0)	Perchlorate (EPA 331.0)	[illegible]	Cl/SO4/NO3	[illegible]	TDS	[illegible]	Remarks:	Lab ID
W	9/28/16	1035		x	MA02 MWoo1D		13	x	x	x	x	x	x	x	x	x	x			
W	9/28/16	1078		1	FD-1		13	x	x	x	x	x	x	x	x	x	x			
W	9/28/16	1078			TB-2		3	x												

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[illegible]			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no

Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
W									
W									
W									
W					TB-4				

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis + Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260 B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (Filtered)	Cl/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	0933			TB-1		3	X											

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number: Melrose Semi-Annual
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (D35) (HNO3)	Perchlorate (Filtered)	Perchlorate (NaOH/Ferrous)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1000		X	M114 MW004		13	X	X	X	X	X	X	X	X	X	X		
W	9/30/11	1230		X	M114 MW001		13	X	X	X	X	X	X	X	X	X	X		
W	9/30/11	1000			TB-5		3	X											

Analytical Requests & Method

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/30/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hour hold on Hex Chrome*

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1002 N. English Parkway
Shalimar FL 32579
Contact: Jonathan Kramer
Phone: 850 613 ~~6800~~ 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number: Melrose Semi-Annual

Sampled By: Ben Stewart, Jonathan Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X		
W	10/3/11	0932		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X		
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X		
W	10/3/11	0800		X	TB-6		3	X											

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart		10/3/11	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Hex Chrome *

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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GCAL-06 11/98

Waste Manifests (IDW)

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RECEIVED DEC 18 2011

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of 1
3. Emergency Response Phone: 806-353-7484
4. Waste Tracking Number: 1002406

5. Generator's Name and Mailing Address: Melrose Air Force Range, Cannon Air Force Base
506 N. DL Ingram Blvd
Cannon, NM 88103
Generator's Phone: 575-784-1002 Attn: Anita LaFuente

Generator's Site Address (if different than mailing address)
25 miles west of Cannon AFB
Clovis, NM 88124

6. Transporter 1 Company Name: Eco-logical Environmental Services, Inc.
U.S. EPA ID Number: State Transporter ID: 83166

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Southwest Landfill TX, LP
20700 Helium Road
Canyon, Texas 79015
Facility's Phone: 806-655-4776
U.S. EPA ID Number: 1663B

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. DOT Non Regulated, RCRA Non Hazardous water	4	DM	1400	DM
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Waste Approval Number: 5121 11 15835

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: A M Lafuente
Signature: AM Lafuente
Month 10 Day 05 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joel Ortiz
Signature: Joel Ortiz
Month 10 Day 5 Year 11

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month 10 Day 10 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O.5, 11977 (Rev. 8/06)

APPENDIX C

Photographic Log

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Site Photographs

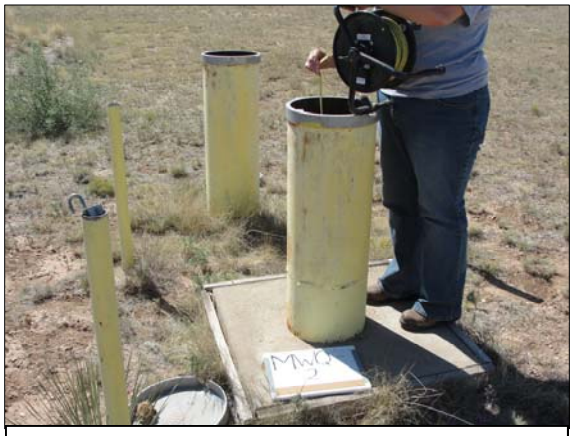

Photo #1
Monitoring wells MWQ-1 and MWQ-2.

Photo #2
MQ-4 is a pumping well utilized for livestock purposes.

Photo #3
Monitoring well MWQ-8. Note that the pad has deteriorated .

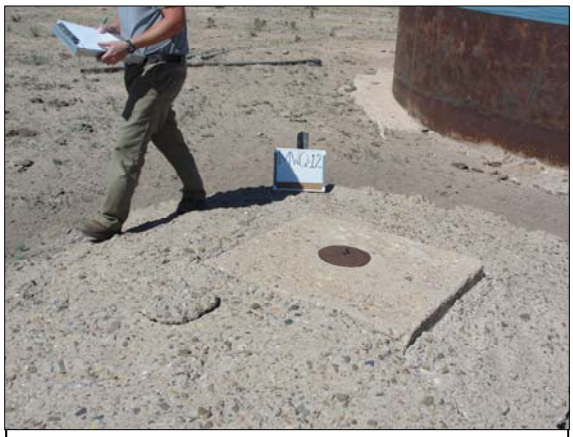

Photo #4
Monitoring well MWQ-12.

Photo #5
Monitoring well MWQ-13.

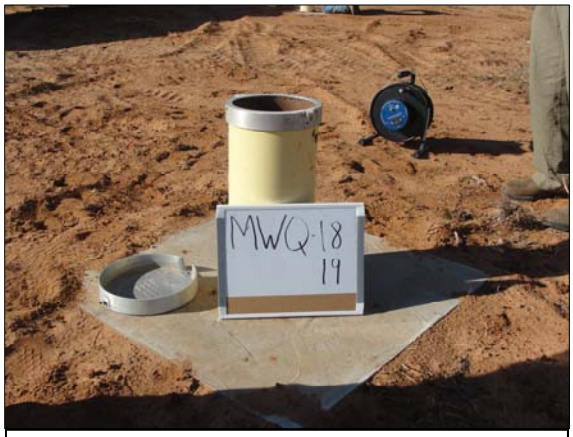

Photo #6
Monitoring wells MWQ-18 and MWQ-19.

Site Photographs

Photo #7
Monitoring wells MWQ-18 and MWQ-19. Photograph of the two monitoring wells within the steel casing.

Photo #8
Monitoring well MWQ-20.

Photo #9
Monitoring wells MWQ-21 and MWQ-22.

Photo #10
Monitoring wells MWQ-21 and MWQ-22. Photograph of the two monitoring wells within the steel casing.

Photo #11
MWL-4.

Photo #12
MWL-5.

Site Photographs

Photo #13
MWL-6.

Photo #14
MWL-7.

Photo #15
MWL-8.

Photo #16
Monitoring well MWL-9.

Photo #17
Monitoring well MWL-10.

Photo #18
Monitoring well MWL-11.

Site Photographs

Photo #19
Monitoring well MWL-12.

Photo #20
MA01– MW-001-.The well pad is in good condition and all three bollards are present.

Photo #21
MA01-MW-002 .The well pad is in good condition and all three bollards are present.

Photo #22
MA01-MW-003. The well pad is in good condition and all three bollards are present.

Photo #23
MA01-MW-004. The well pad is in good condition, however one bollard is missing. Bollard will be installed in 2012.

Photo #24
M114-MW-004. The well pad is in good condition and all three bollards are present.

Site Photographs

Photo #23
Typical photograph well abandonment procedure. Tremie pipe is in well (MAO3MW001).

Photo #24
Abandoned well MAO3MW001.

Photo #25
Surface completion removed.

Photo #26
Removing surface casing of M117MW002 subsequent to abandonment.

Photo #27
Removing surface casing of M117MW004 subsequent to abandonment.

Site Photographs

Photo #28
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas .

Photo #29
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas.

Photo #30
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas

APPENDIX D

Geophysical Logs

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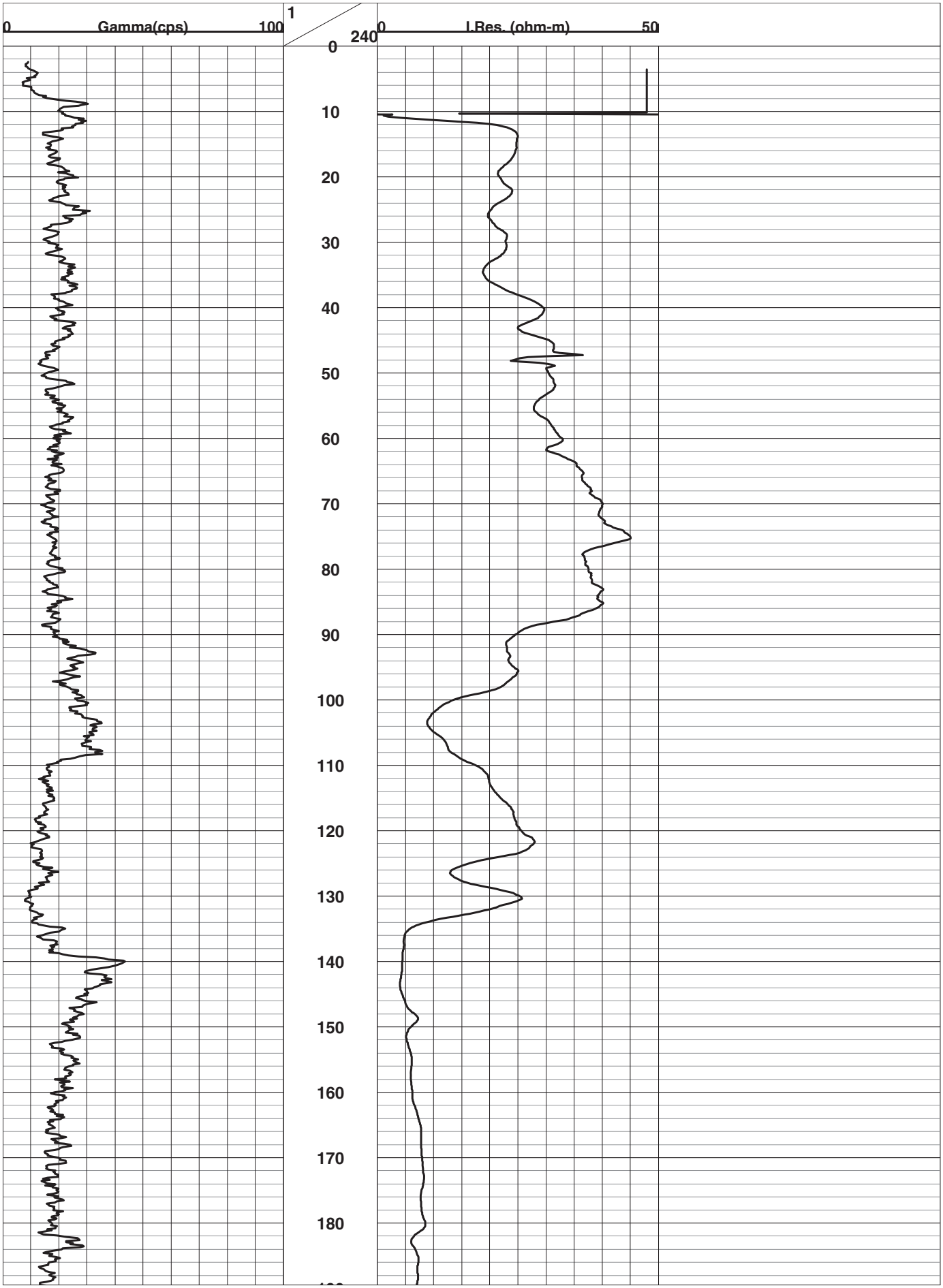
MWQ-2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Gamma(cps)
100
1
240
0
LRes. (ohm-m)
50
0
10
20
30
40
50
60
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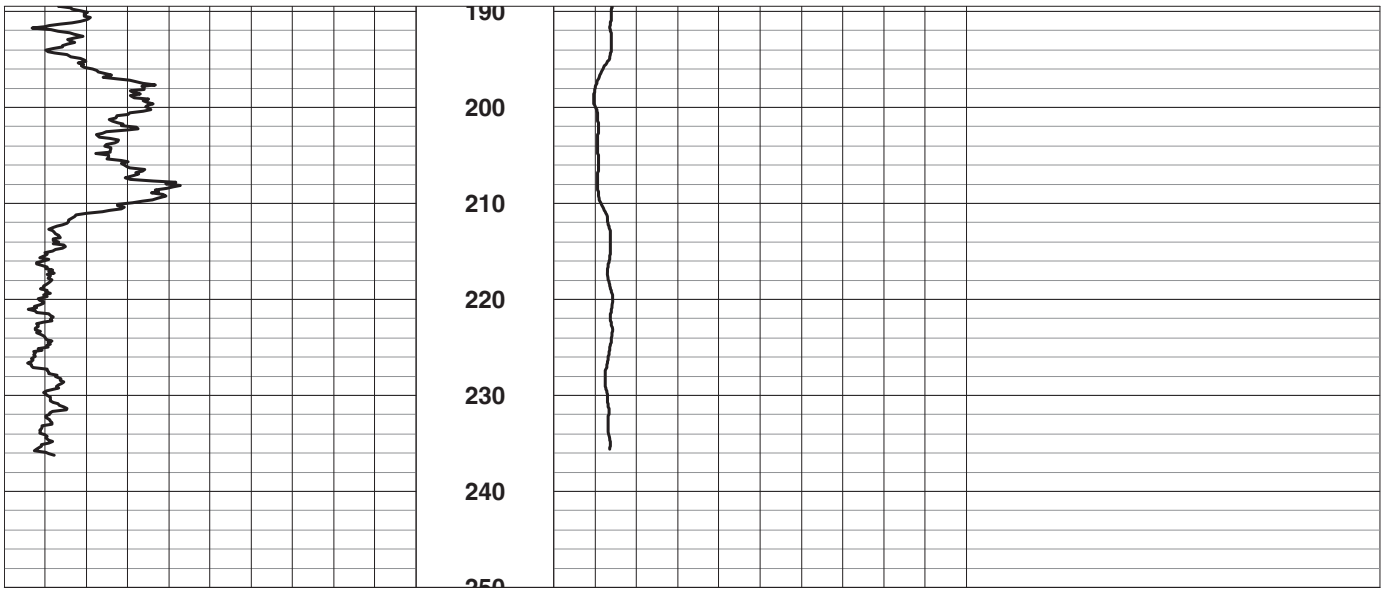
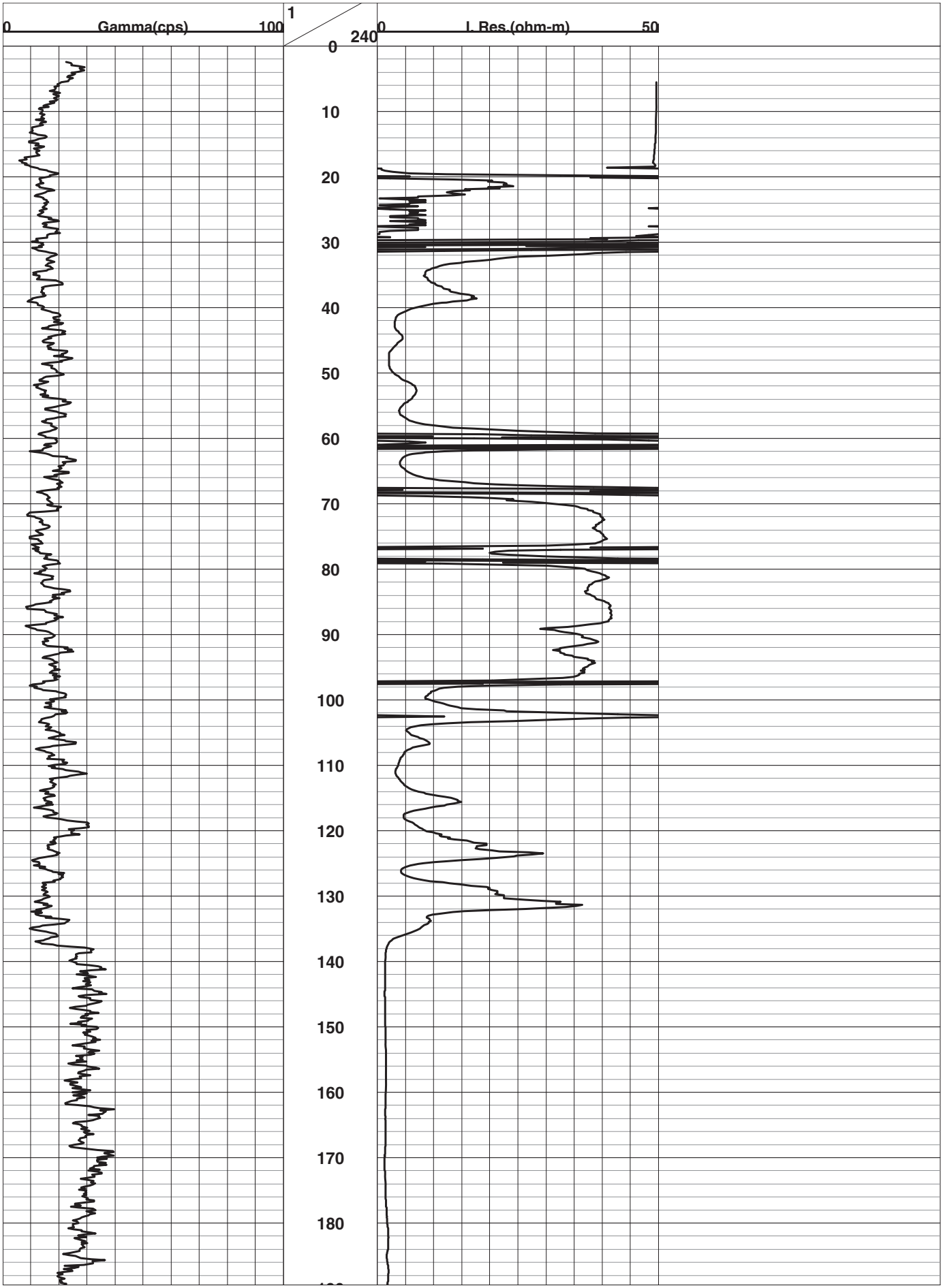
130
140
150
160
170
180


190
200
210
220
230
240
250

MWQ-20


0
Gamma(cps)
100
1
240
0
L Res.(ohm-m)
50
0
10
20
30
40
50
60
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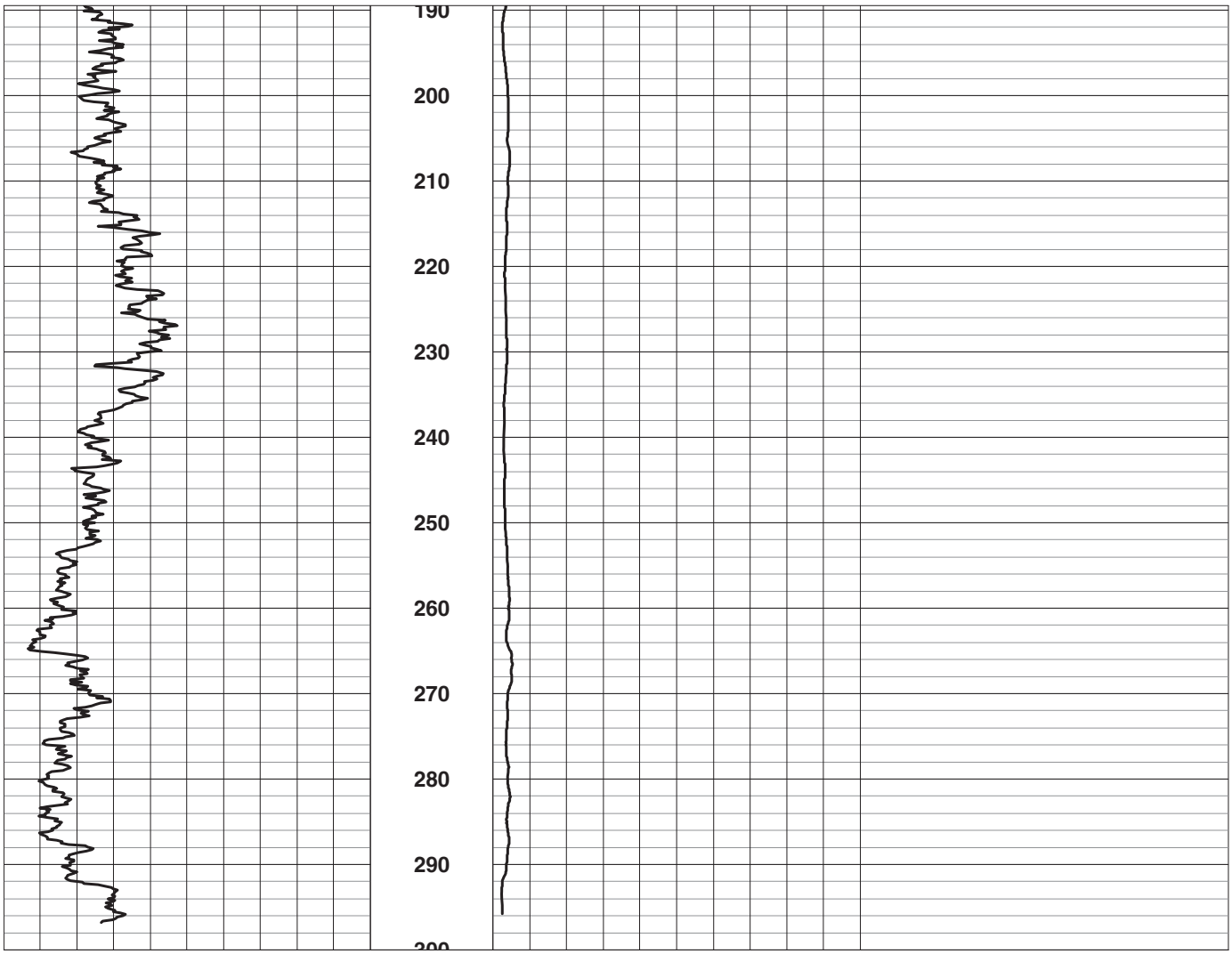
130
140
150
160
170
180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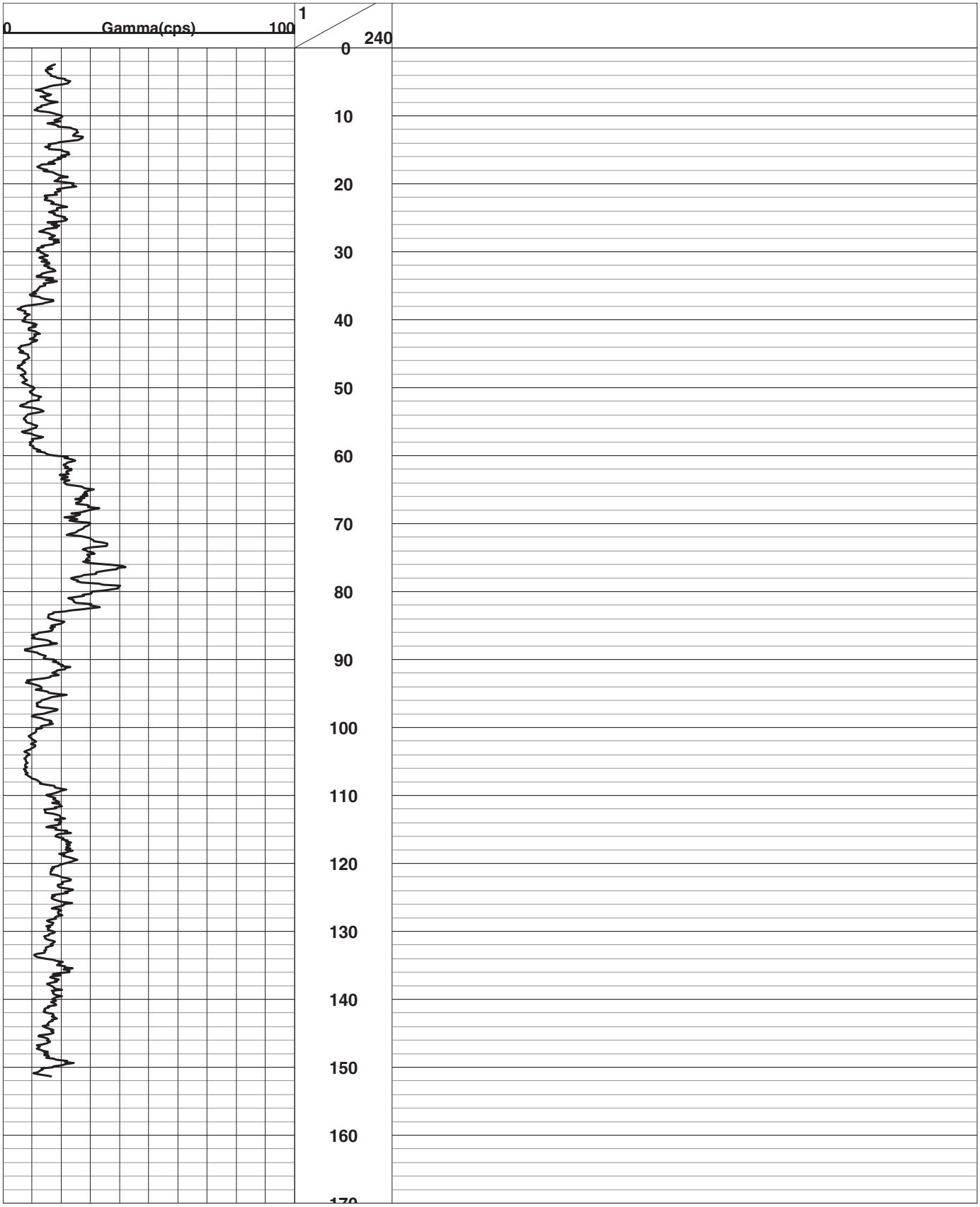
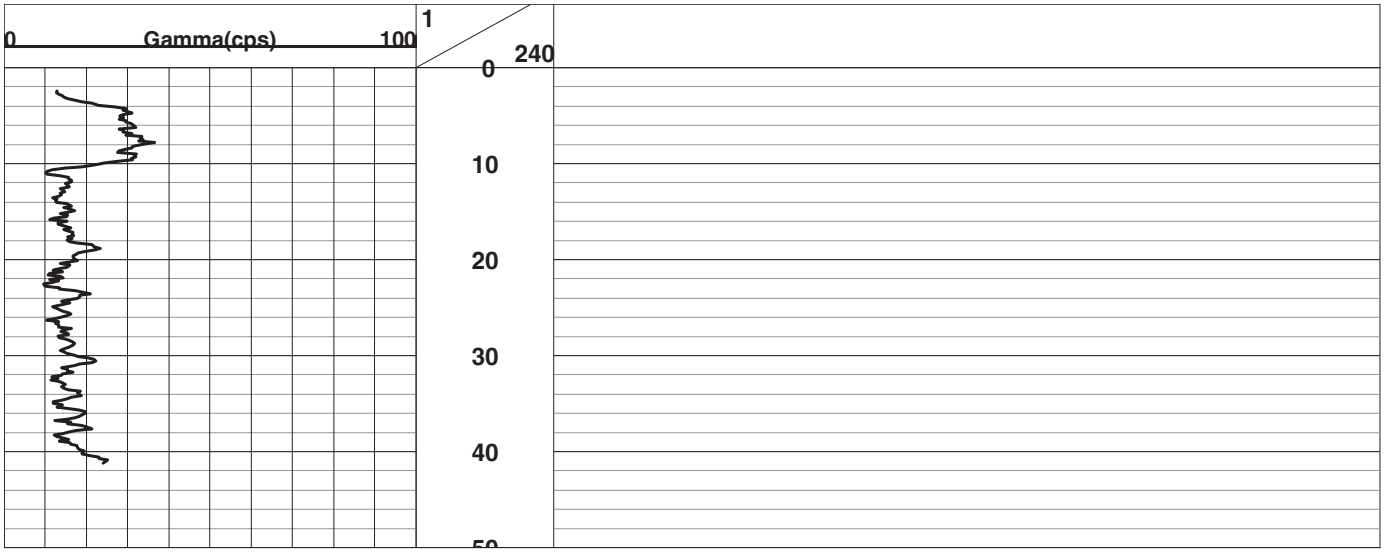
200
210
220
230
240
250
260
270
280
290

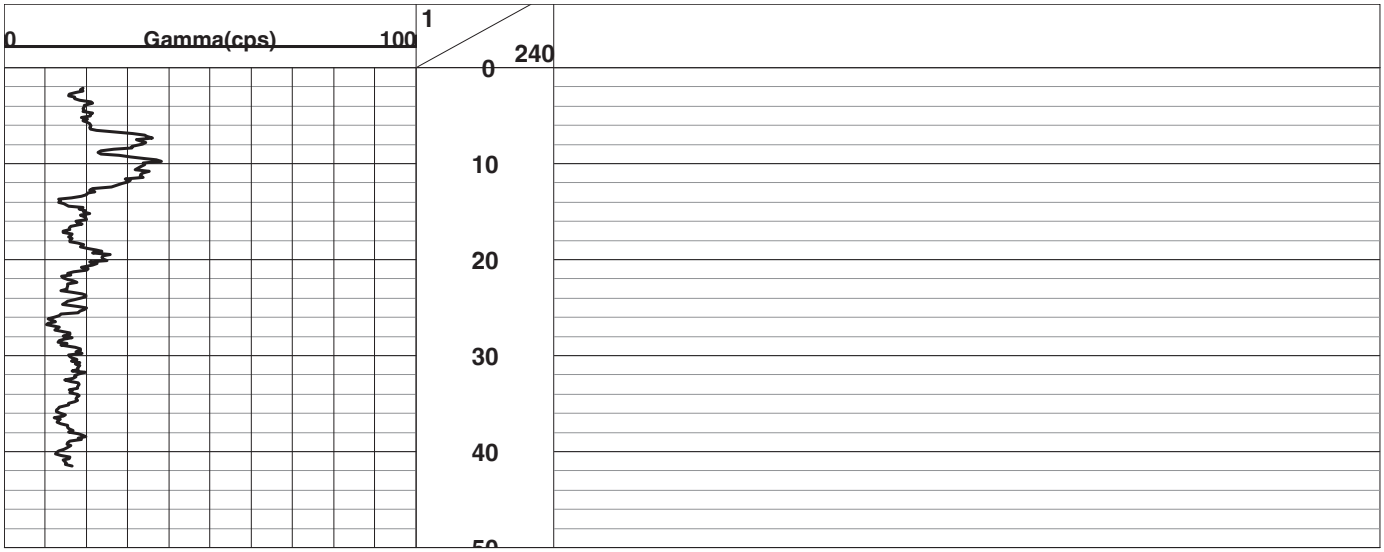
MWQ-22


0
Gamma(cps)
100
1
240
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160

M117MW001



M117MW004



MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
2.43	7.46289	2.43	-999	2.43	23.9551	5.51	-0.369321	2.43	17.7031	2.43	12.6582	2.1	18.7139
2.59	8.6001	2.59	-999	2.59	25.7012	5.67	-0.370757	2.59	9.89795	2.59	13.7622	2.26	22.6973
2.75	13.5166	2.76	-999	2.75	15.4326	5.83	-0.371757	2.75	26.1797	2.75	12.8057	2.43	16.668
2.92	7.42334	2.92	-999	2.92	32.498	6	-0.371312	2.92	12.1152	2.92	11.3867	2.59	16.2617
3.08	3.78479	3.08	-999	3.08	25.625	6.16	-0.372987	3.08	14.1392	3.08	15.5942	2.75	20.6787
3.25	8.33301	3.25	-999	3.25	23.1846	6.32	-0.374451	3.25	14.2476	3.25	17.1299	2.92	10.3398
3.41	7.59595	3.41	-999	3.41	37.9473	6.49	-0.378219	3.41	17.7188	3.41	15.9609	3.08	15.4019
3.57	17.1768	3.57	-2.13143	3.57	26.5332	6.65	-0.37707	3.57	15.0107	3.57	17.4033	3.25	15.3662
3.74	7.64478	3.74	-2.13143	3.74	22.9551	6.82	-0.377299	3.74	12.625	3.74	20.0137	3.41	23.6641
3.9	7.59204	3.9	-2.13143	3.9	28.0215	6.98	-0.379144	3.9	17.6924	3.9	24.0547	3.57	20.3682
4.06	13.0469	4.07	-2.13143	4.06	29.6875	7.14	-0.380191	4.06	14.4141	4.06	29.1504	3.74	17.0254
4.23	13.2578	4.23	-2.13143	4.23	27.9287	7.31	-0.376269	4.23	23.1104	4.23	24.2441	3.9	28.8994
4.39	21.2803	4.39	-2.13143	4.39	13.8008	7.47	-0.37707	4.39	14.2021	4.39	37.1699	4.06	16.9717
4.55	5.80078	4.56	-2.13143	4.55	29.3086	7.63	-0.380424	4.55	20.4941	4.55	33.0195	4.23	13.5767
4.72	5.81372	4.72	-2.13143	4.72	24.4805	7.8	-0.37926	4.72	21.4502	4.72	20.4365	4.39	20.4951
4.88	9.72705	4.88	-2.13143	4.88	20.8232	7.96	-0.377299	4.88	27.6025	4.88	34.582	4.55	15.3818
5.05	15.4771	5.05	-2.13143	5.05	26.4854	8.12	-0.375699	5.05	22.8457	5.05	29.4512	4.72	30.7158
5.21	5.79541	5.21	-2.13143	5.21	23.7617	8.29	-0.371201	5.21	22.8135	5.21	26.6289	4.88	15.3647
5.37	9.64941	5.37	-2.13143	5.37	23.9375	8.45	-0.370535	5.37	17.7793	5.37	28.833	5.05	25.7109
5.54	7.79932	5.54	-2.13143	5.54	22.3652	8.62	-0.37479	5.54	20.5303	5.54	25.4785	5.21	17.1592
5.7	1.92432	5.7	-2.13143	5.7	19.6709	8.78	-0.377644	5.7	18.4629	5.7	28.7412	5.37	15.3037
5.86	9.49609	5.87	-2.13143	5.86	14.2095	8.94	-0.383957	5.86	6.27344	5.86	37.7637	5.54	20.416
6.03	7.49878	6.03	-2.13143	6.03	21.3457	9.11	-0.389138	6.03	16.8291	6.03	26.8311	5.7	22.0947
6.19	9.3584	6.19	-2.13143	6.19	19.6689	9.27	-0.38503	6.19	12.4424	6.19	35.7539	5.86	20.4365
6.35	7.51709	6.36	-2.13143	6.35	25.3936	9.43	-0.389627	6.35	10.3047	6.35	28.5918	6.03	21.9658
6.52	16.9531	6.52	-2.13143	6.52	11.3628	9.6	-0.391595	6.52	10.4531	6.52	30.3643	6.19	18.6045
6.68	9.29053	6.68	-2.13143	6.68	16.874	9.76	-0.39296	6.68	18.915	6.68	17.9219	6.35	22.0264
6.85	7.41577	6.85	-2.13143	6.85	20.6309	9.92	-0.398132	6.85	16.9219	6.85	31.9707	6.52	20.2305
7.01	9.64307	7.01	-2.13143	7.01	17.9336	10.09	-0.401613	7.01	16.9258	7.01	35.6035	6.68	21.9678
7.17	11.626	7.17	-2.13143	7.17	16.5127	10.25	-0.406884	7.17	19.3906	7.17	38.9219	6.85	29.0371
7.34	16.8945	7.34	-2.13143	7.34	24.2549	10.42	-0.412021	7.34	6.49609	7.34	23.0645	7.01	40.7813
7.5	11.1396	7.5	-2.13143	7.5	22.8223	10.58	-0.416588	7.5	4.26001	7.5	37.2988	7.17	43.541
7.66	11.4233	7.67	-2.13143	7.66	8.15088	10.74	-0.418274	7.66	25.8428	7.66	30.0078	7.34	35.1406
7.83	13.0469	7.83	-2.13143	7.83	23.1377	10.91	-0.418415	7.83	15.1357	7.83	39.0918	7.5	25.1807
7.99	24.29	7.99	-2.13143	7.99	21.7383	11.07	-0.424866	7.99	21.2363	7.99	34.1445	7.66	35.2539
8.15	11.895	8.16	-2.13143	8.15	20.9385	11.23	-0.431068	8.15	12.562	8.15	41.6035	7.83	21.6699
8.32	18.6172	8.32	-2.13143	8.32	16.5674	11.4	-0.434238	8.32	19.1318	8.32	25.0742	7.99	48.0527
8.48	29.377	8.48	-2.13143	8.48	14.7197	11.56	-0.434086	8.48	10.5151	8.48	16.0352	8.15	41.5371
8.65	28.9287	8.65	-2.13143	8.65	20.2793	11.72	-0.438072	8.65	10.5859	8.65	37.7813	8.32	21.7471
8.81	41.1953	8.81	-2.13143	8.81	11.1318	11.89	-0.444829	8.81	12.6968	8.81	26.916	8.48	21.6699
8.97	25.9912	8.97	-2.13143	8.97	29.4072	12.05	-0.45114	8.97	12.6733	8.97	33.7891	8.65	21.71
9.14	25.6201	9.14	-2.13143	9.14	8.7002	12.21	-0.454446	9.14	12.5835	9.14	22.9268	8.81	26.6689
9.3	18.9365	9.3	-2.13143	9.3	6.83374	12.38	-0.463793	9.3	10.4067	9.3	38.9414	8.97	25.3291
9.46	22.6777	9.47	-2.13143	9.46	15.9893	12.54	-0.475713	9.46	6.21289	9.46	35.5645	9.14	18.665
9.63	15.3232	9.63	-2.13143	9.63	20.4912	12.71	-0.483314	9.63	20.6133	9.63	28.3496	9.3	25.2979
9.79	22.1826	9.79	-2.13143	9.79	13.7144	12.87	-0.497666	9.79	28.7803	9.79	28.3047	9.46	43.5254
9.95	22.543	9.96	-2.13143	9.95	6.87598	13.03	-0.499068	9.95	19.1074	9.95	24.8926	9.63	40.0742
10.12	17.2266	10.12	-2.14536	10.12	13.6992	13.2	-0.500276	10.12	17.0576	10.12	19.6992	9.79	41.9824
10.28	20.7119	10.28	-35.4034	10.28	16.1846	13.36	-0.503526	10.28	14.8325	10.28	19.6836	9.95	33.5039
10.45	24.5381	10.45	2.65523	10.45	19.6348	13.52	-0.518255	10.45	22.248	10.45	19.7227	10.12	31.8252
10.61	20.377	10.61	1.06745	10.61	9.90527	13.69	-0.526171	10.61	25.1719	10.61	10.7476	10.28	21.7549
10.77	28.3008	10.77	1.88291	10.77	14.7036	13.85	-0.513747	10.77	14.9741	10.77	3.58984	10.45	41.7363
10.94	16.876	10.94	4.13208	10.94	9.86865	14.01	-0.536645	10.94	10.6206	10.94	5.37061	10.61	36.6973
11.1	31.7002	11.1	6.34496	11.1	14.8179	14.18	-0.580612	11.1	25.2637	11.1	12.5093	10.77	30.5303
11.26	29.8262	11.27	9.16782	11.26	19.6533	14.34	-0.552914	11.26	12.6099	11.26	17.9219	10.94	27.7432
11.43	37.5664	11.43	12.2894	11.43	14.6196	14.51	-0.510574	11.43	12.6479	11.43	12.4561	11.1	39.7227
11.59	18.9756	11.59	15.22	11.59	0	14.67	-0.511206	11.59	25.2041	11.59	19.5166	11.26	33.8223
11.75	29.4463	11.76	17.7894	11.75	22.1924	14.83	-0.572306	11.75	18.7412	11.75	15.9082	11.43	34.2129
11.92	23.3887	11.92	19.7434	11.92	20.542	15	-0.630177	11.92	25.1758	11.92	12.4224	11.59	29.6533
12.08	33.6758	12.08	21.2501	12.08	10.3135	15.16	-0.660729	12.08	33.4824	12.08	21.2539	11.75	30.9863
12.25	24.1797	12.25	22.3179	12.25	12.8682	15.32	-0.664268	12.25	16.8369	12.25	12.3467	11.92	18.4453
12.41	18.751	12.41	23.0552	12.41	5.23071	15.49	-0.650676	12.41	32.0371	12.41	12.4258	12.08	40.2109
12.57	22.79	12.57	23.5709	12.57	10.5986	15.65	-0.667127	12.57	18.9775	12.57	19.7705	12.25	30.8096
12.74	25.9443	12.74	23.9918	12.74	13.1709	15.81	-0.69207	12.74	27.0654	12.74	12.6685	12.41	22.9385
12.9	13.3032	12.9	24.2845	12.9	10.5039	15.98	-0.717703	12.9	28.707	12.9	10.7339	12.57	22.8057
13.06	26.2305	13.07	24.5507	13.06	13.2344	16.14	-0.743966	13.06	14.3872	13.06	16.0811	12.74	13.6719
13.23	13.272	13.23	24.6861	13.23	5.30225	16.31	-0.745307	13.23	31.2363	13.23	14.3828	12.9	16.8857
13.39	11.3101	13.39	24.8458	13.39	10.4521	16.47	-0.753	13.39	35.3691	13.39	14.3447	13.06	27.5166
13.55	7.47998	13.56	24.8919	13.55	7.76099	16.63	-0.780486	13.55	26.9707	13.55	14.1895	13.23	29
13.72	13.0225	13.72	24.9612	13.72	20.7822	16.8	-0.813775	13.72	24.8281	13.72	7.04712	13.39	13.7559
13.88	26.2988	13.88	24.9612	13.88	18.1611	16.96	-0.84138	13.88	10.3604	13.88	8.84912	13.55	12.3901
14.05	22.9424	14.05	24.8919	14.05	18.1563	17.12	-0.834585	14.05	16.7383	14.05	19.5371	13.72	10.8545
14.21	21.1396	14.21	24.8458	14.21	12.9351	17.29	-0.832345	14.21	18.7422	14.21	12.3843	13.88	15.5049
14.37	19.1553	14.37	24.8	14.37	5.20874	17.45	-0.883959	14.37	20.2617	14.37	15.8818	14.05	13.876
14.54	18.0674	14.54	24.8	14.54	10.4624	17.61	-0.910569	14.54	12.2183	14.54	19.5	14.21	15.3755
14.7	14.7124	14.7	24.7429	14.7	10.3862	17.78	-1.00911	14.7	12.7153	14.7	14.2769	14.37	10.8325
14.86	15.4028	14.86	24.7657	14.86	7.84619	17.94	-0.855897	14.86	8.30078	14.86	10.7051	14.54	16.8398
15.03	17.0244	15.03	24.7315	15.03	13.1748	18.11	-0.633395	15.03	24.9609	15.03	19.6006	14.7	21.415
15.19	15.0342	15.19	24.6974	15.19	21.0557	18.27	-0.528188	15.19	20.292	15.19	21.4482	14.86	30.6436
15.35	22.7402	15.36	24.7315	15.35	10.4561	18.43	-0.630818	15.35	34.5938	15.35	12.5439	15.03	10.7188
15.52	15.0732	15.52	24.7885	15.52	5.27271	18.6	-9.12067	15.52	14.3447	15.52	3.57581	15.19	18.3311
15.68	14.9209	15.68	24.7201	15.68	23.666	18.76	0.721858	15.68	18.3584	15.68	19.6484	15.35	15.2139
15.84	9.31055	15.85	24.6521	15.84	7.85474	18.92	0.74979	15.84	22.4092	15.84	17.8721	15.52	29.0166
16.01	22.5156	16.01	24.5844	16.01	7.76416	19.09	1.3378	16.01	24.3828	16.01	7.09766	15.68	19.7031
16.17	18.5889	16.17	24.5395	16.17	15.5093	19.25	2.73753	16.17	20.3223	16.17	7.08936	15.84	15.2505
16.34	30.1787	16.34	24.4725	16.34	10.3481	19.41	5.66221	16.34	22.2754	16.34	24.6709	16.01	20.0303
16.5	15.4214	16.5	24.3615	16.5	18.1465	19.58	12.2757	16.5	4.11353	16.5	8.84375	16.17	15.5762
16.66	7.70801	16.66	24.2626	16.66	7.73975	19.74	32.6136	16.66	28.6689	16.66	17.6973	16.34	16.9795
16.83	17.0703	16.83	24.1752	16.83	10.3325	19.91	205.796	16.83	12.3091	16.83	15.7622	16.5	21.5674
16.99	13.1133	16.99	24.0132	16.99	18.2451	20.07	-62.0899	16.99	18.7432	16.99	14.1343	16.66	20.0693
17.15	28.1426	17.16	23.8745	17.15	0	20.23	-47.747	17.15	14.5142	17.15	16.1162	16.83	6.16064
17.32	18.8652	17.32	23.8111	17.32	2.63342	20.4	-36.5038	17.32	14.5229	17.32	14.3853	16.99	13.7124

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
17.48	24.3516	17.48	23.6539	17.48	10.5049	20.56	-29.5463	17.48	6.03027	17.48	23.2051	17.15	18.2549
17.64	16.8887	17.65	23.4475	17.64	10.5679	20.72	-30.2674	17.64	9.85547	17.64	14.2866	17.32	13.6436
17.81	5.54053	17.81	23.2748	17.81	5.29028	20.89	-27.5754	17.81	14.0239	17.81	16.1787	17.48	19.8447
17.97	23.9746	17.97	23.0651	17.97	5.21143	21.05	-26.9756	17.97	18.0488	17.97	8.95703	17.64	16.7334
18.14	14.6943	18.14	22.7912	18.14	2.58704	21.21	-27.5754	18.14	19.9883	18.14	19.5127	17.81	12.1577
18.3	18.2451	18.3	22.5426	18.3	18.1191	21.38	-25.851	18.3	13.9189	18.3	17.5313	17.97	15.1768
18.46	20.0332	18.46	22.3737	18.46	7.80127	21.54	-30.2674	18.46	3.98816	18.46	17.6914	18.14	18.4365
18.63	18.3945	18.63	22.1068	18.63	12.8994	21.71	-28.2025	18.63	28.04	18.63	24.7588	18.3	16.9131
18.79	31.9502	18.79	21.8729	18.79	7.74854	21.87	-34.4743	18.79	22.4102	18.79	26.4697	18.46	16.9063
18.95	19.3857	18.96	21.7401	18.95	15.6328	22.03	-33.5419	18.95	26.0605	18.95	22.8789	18.63	21.4443
19.12	20.6777	19.12	21.557	19.12	20.8662	22.2	-36.5038	19.12	20.2109	19.12	24.7363	18.79	23.084
19.28	22.2852	19.28	21.4966	19.28	20.6777	22.36	-37.6108	19.28	14.5024	19.28	10.6768	18.95	13.8779
19.44	24.2295	19.45	21.4366	19.44	15.6348	22.52	-36.5038	19.44	12.5244	19.44	14.2363	19.12	26.041
19.61	11.166	19.61	21.4366	19.61	15.7285	22.69	-34.4743	19.61	22.5068	19.61	17.7529	19.28	27.543
19.77	34.8262	19.77	21.5657	19.77	26.2627	22.85	-36.5038	19.77	22.2959	19.77	19.6055	19.44	27.5361
19.94	24.0596	19.94	21.705	19.94	18.2959	23.01	-42.8032	19.94	16.1826	19.94	21.4189	19.61	12.23
20.1	31.1865	20.1	21.8284	20.1	7.86572	23.18	-42.8032	20.1	32.3125	20.1	10.7036	19.77	34.9141
20.26	23.7871	20.26	21.9443	20.26	15.8027	23.34	-49.6589	20.26	27.9688	20.26	15.9873	19.94	18.1748
20.43	20.0576	20.43	22.0886	20.43	5.21753	23.51	-41.3752	20.43	19.9619	20.43	21.3906	20.1	25.8594
20.59	10.9766	20.59	22.1981	20.59	18.1016	23.67	-44.3333	20.59	23.96	20.59	10.6191	20.26	28.7129
20.75	21.8867	20.76	22.3365	20.75	18.0977	23.83	-41.3752	20.75	21.8887	20.75	8.84229	20.43	16.6865
20.92	21.7715	20.92	22.4578	20.92	10.3579	24	-44.3333	20.92	15.6606	20.92	22.833	20.59	13.7822
21.08	20.4414	21.08	22.6567	21.08	15.522	24.16	-44.3333	21.08	11.5664	21.08	12.356	20.75	27.9746
21.24	22.9639	21.25	22.9078	21.24	10.2896	24.32	-49.6589	21.24	25.1299	21.24	10.6025	20.92	20.0986
21.41	18.5039	21.41	23.1545	21.41	10.271	24.49	-42.8032	21.41	23.2803	21.41	5.25659	21.08	15.3525
21.57	28.8555	21.57	23.427	21.57	13.0088	24.65	-47.747	21.57	13.6836	21.57	19.3633	21.24	24.6904
21.74	15.9722	21.74	23.727	21.74	15.8086	24.81	-51.7303	21.74	16.1494	21.74	7.16138	21.41	12.2871
21.9	24.8311	21.9	23.9277	21.9	15.7314	24.98	-47.747	21.9	14.2061	21.9	10.7666	21.57	12.1753
22.06	18.2217	22.06	23.9918	22.06	18.3301	25.14	-41.3752	22.06	4.08862	22.06	24.9258	21.74	12.1802
22.23	19.7891	22.23	23.9597	22.23	23.7227	25.3	-44.3333	22.23	23.9678	22.23	8.93018	21.9	19.6152
22.39	32.0156	22.39	23.8745	22.39	18.4619	25.47	-42.8032	22.39	18.0264	22.39	3.58777	22.06	13.7241
22.55	14.1851	22.56	23.8639	22.55	2.61121	25.63	-44.3333	22.55	11.8013	22.55	17.8174	22.23	13.6016
22.72	28.124	22.72	23.6643	22.72	12.8857	25.8	-41.3752	22.72	13.625	22.72	3.5293	22.39	18.1143
22.88	22.3701	22.88	23.5193	22.88	12.9463	25.96	-47.747	22.88	15.5361	22.88	14.0356	22.55	18.0889
23.04	20.8428	23.05	23.2849	23.04	12.9795	26.12	-47.747	23.04	27.7598	23.04	10.5918	22.72	24.4102
23.21	13.8379	23.21	23.1047	23.21	15.4839	26.29	-42.8032	23.21	13.4434	23.21	21.2051	22.88	3.06445
23.37	14.0356	23.37	22.7912	23.37	12.8975	26.45	-42.8032	23.37	22.9678	23.37	17.6582	23.04	13.8008
23.54	18.9336	23.54	22.4672	23.54	18.1768	26.61	-41.3752	23.54	21.2197	23.54	22.8857	23.21	16.8408
23.7	21.4717	23.7	22.1615	23.7	13.001	26.78	-47.747	23.7	25.0801	23.7	22.9756	23.37	18.3945
23.86	14.5313	23.86	21.7842	23.86	18.1289	26.94	-41.3752	23.86	9.81592	23.86	19.584	23.54	16.916
24.03	15.4873	24.03	21.4966	24.03	15.6411	27.1	-41.3752	24.03	13.5156	24.03	8.88477	23.7	16.7275
24.19	32.3281	24.19	21.2166	24.19	15.7759	27.27	-44.3333	24.19	23.8857	24.19	17.7363	23.86	25.9316
24.35	21.916	24.36	20.9193	24.35	10.5293	27.43	-41.3752	24.35	12.0303	24.35	19.6611	24.03	21.3369
24.52	25.957	24.52	20.7017	24.52	18.3428	27.6	-51.7303	24.52	19.9561	24.52	14.2661	24.19	18.2354
24.68	16.8037	24.68	20.5356	24.68	15.7217	27.76	-42.8032	24.68	19.7148	24.68	8.9375	24.35	9.05566
24.84	38.7207	24.85	20.3567	24.84	13.1396	27.92	-42.8032	24.84	11.7451	24.84	19.5332	24.52	10.5337
25.01	23.7891	25.01	20.196	25.01	13.0571	28.09	-42.8032	25.01	29.3418	25.01	8.89502	24.68	18.1172
25.17	19.9707	25.17	20.0379	25.17	18.1152	28.25	-47.747	25.17	25.3984	25.17	7.07471	24.84	18.0615
25.34	25.6201	25.34	19.8528	25.34	10.3208	28.41	-49.6589	25.34	17.5059	25.34	17.6973	25.01	15.105
25.5	47.1055	25.5	19.7725	25.5	10.3511	28.58	-49.6589	25.5	26.0039	25.5	14.0479	25.17	28.9775
25.66	25.3789	25.66	19.6928	25.66	20.7002	28.74	-49.6589	25.66	9.58447	25.66	22.9189	25.34	20.0254
25.83	29.4414	25.83	19.664	25.83	10.2827	28.9	-51.7303	25.83	21.2617	25.83	15.873	25.5	15.2646
25.99	12.8662	25.99	19.6784	25.99	15.4468	29.07	-53.982	25.99	1.8985	25.99	10.5005	25.66	12.2246
26.15	22.3652	26.16	19.7289	26.15	5.22095	29.23	-47.747	26.15	33	26.15	12.3589	25.83	13.8052
26.32	16.8623	26.32	19.8309	26.32	13.1689	29.4	-62.0899	26.32	18.0244	26.32	7.14282	25.99	7.61914
26.48	30.251	26.48	20.0454	26.48	34.1094	29.56	-59.1296	26.48	22.2285	26.48	14.293	26.15	18.1523
26.64	28.5693	26.65	20.2036	26.64	18.3623	29.72	-103.574	26.64	11.8423	26.64	7.11621	26.32	9.02246
26.81	26.2783	26.81	20.3182	26.81	10.541	29.89	-113.012	26.81	7.8855	26.81	25.0342	26.48	4.51758
26.97	16.5361	26.97	20.5356	26.97	21.1123	30.05	-155.531	26.97	13.6357	26.97	8.97998	26.64	18.1982
27.14	20.3848	27.14	20.7497	27.14	15.6143	30.21	-155.531	27.14	15.6069	27.14	10.7241	26.81	12.1064
27.3	21.75	27.3	20.8705	27.3	7.71265	30.38	-417.034	27.3	13.5537	27.3	14.1509	26.97	9.07129
27.46	18.9287	27.46	21.0092	27.46	15.5566	30.54	-1273.55	27.46	21.3779	27.46	22.874	27.14	7.57471
27.63	7.61914	27.63	21.1498	27.63	18.1709	30.7	1208.5	27.63	15.5767	27.63	14.1509	27.3	19.9346
27.79	17.2627	27.79	21.3599	27.79	18.0518	30.87	137.397	27.79	16.2666	27.79	7.08276	27.46	15.3159
27.95	19.2646	27.95	21.6787	27.95	12.9194	31.03	123.693	27.95	22.4512	27.95	17.6699	27.63	9.15723
28.12	15.1157	28.12	22.0343	28.12	20.7725	31.2	77.384	28.12	10.0083	28.12	15.7993	27.79	19.7852
28.28	13.3179	28.28	22.3551	28.28	28.6484	31.36	61.9274	28.28	15.8184	28.28	10.5898	27.95	15.3506
28.44	18.8584	28.45	22.5521	28.44	15.501	31.52	44.2504	28.44	14.8467	28.44	16.0391	28.12	20.0068
28.61	24.3223	28.61	22.8202	28.61	18.2334	31.69	38.7236	28.61	32.3301	28.61	14.1914	28.28	7.61816
28.77	28.3379	28.77	22.9567	28.77	10.4956	31.85	36.4475	28.77	13.8955	28.77	23.0088	28.44	19.8652
28.93	13.2212	28.94	23.0651	28.93	28.9639	32.01	30.2288	28.93	19.7578	28.93	19.5771	28.61	10.6685
29.1	13.0669	29.1	23.0552	29.1	10.4487	32.18	25.2961	29.1	6.01855	29.1	12.4624	28.77	9.17822
29.26	16.8438	29.26	22.996	29.26	10.4409	32.34	22.955	29.26	14.0313	29.26	14.2554	28.93	18.1885
29.43	16.7393	29.43	22.9763	29.43	18.3203	32.5	21.3726	29.43	11.9448	29.43	8.87158	29.1	18.1787
29.59	22.1113	29.59	22.859	29.59	10.3828	32.67	19.9943	29.59	17.8799	29.59	17.7139	29.26	12.1978
29.75	5.6062	29.75	22.8299	29.75	10.332	32.83	18.2308	29.75	9.89795	29.75	14.147	29.43	28.6348
29.92	11.5625	29.92	22.8299	29.92	10.1992	33	15.6932	29.92	7.98145	29.92	17.6201	29.59	15.1733
30.08	23.1016	30.08	22.8493	30.08	12.8555	33.16	14.7593	30.08	10.1274	30.08	17.5459	29.75	18.3789
30.24	20.9521	30.25	22.9371	30.24	7.76904	33.32	12.9149	30.24	17.9893	30.24	17.5977	29.92	12.3506
30.41	19.207	30.41	22.9861	30.41	30.7168	33.49	11.8082	30.41	18.3389	30.41	22.8701	30.08	19.877
30.57	15.2827	30.57	22.9861	30.57	7.71533	33.65	11.0704	30.57	14.5044	30.57	26.2588	30.24	12.2681
30.73	20.7559	30.74	22.996	30.73	13.0342	33.81	10.5974	30.73	10.3047	30.73	24.7598	30.41	16.835
30.9	18.8584	30.9	22.9273	30.9	5.28174	33.98	9.61178	30.9	16.1406	30.9	19.625	30.57	21.2725
31.06	22.624	31.06	22.9273	31.06	13.1382	34.14	9.39338	31.06	8.05225	31.06	12.5337	30.73	18.123
31.23	17.0645	31.23	22.743	31.23	13.1055	34.3	8.79391	31.23	13.7549	31.23	8.89307	30.9	13.4561
31.39	26.123	31.39	22.6185	31.39	13.1802	34.47	8.61074	31.39	21.5391	31.39	19.6123	31.06	22.4863
31.55	11.1699	31.55	22.4954	31.55	18.4297	34.63	8.4928	31.55	15.7222	31.55	8.9624	31.23	10.5928
31.72	11.166	31.72	22.3179	31.72	18.1953	34.8	8.55136	31.72	6.80688	31.72	26.7744	31.39	27.0859
31.88	14.9033	31.88	22.1068	31.88	20.5195	34.96	8.55136	31.88	21.2373	31.88	12.3779	31.55	15.085
32.04	12.98	32.05	21.9353	32.04	23.3516	35.12	8.26637	32.04	14.9165	32.04	15.8022	31.72	15.002
32.21	29.5117	32.21	21.7489	32.21	15.5903	35.29	8.55136	32.21	12.645	32.21	7.05103	31.88	15.2021
32.37	26.4863	32.37	21.4623	32.37	12.8804	35.45	8.85671	32.37	14.7983	32.37	7.07349	32.04	25.8672

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
32.53	20.7178	32.54	21.0669	32.53	12.8994	35.61	8.98504	32.53	15.0161	32.53	15.8857	32.21	19.6934
32.7	20.7275	32.7	20.7177	32.7	18.1973	35.78	8.98504	32.7	19.541	32.7	19.3555	32.37	9.15723
32.86	13.2031	32.86	20.3876	32.86	18.2109	35.94	9.2532	32.86	23.4902	32.86	7.08325	32.53	16.7979
33.03	26.4736	33.03	20.0379	33.03	15.585	36.1	9.61178	33.03	14.8179	33.03	17.833	32.7	12.2354
33.19	24.6572	33.19	19.7871	33.19	20.8516	36.27	10.2471	33.19	16.751	33.19	10.6675	32.86	15.1694
33.35	14.9722	33.35	19.5282	33.35	18.5186	36.43	10.3325	33.35	2.08228	33.35	19.5068	33.03	27.3203
33.52	29.7695	33.52	19.3454	33.52	7.86475	36.6	10.6887	33.52	8.65234	33.52	14.2319	33.19	18.0703
33.68	31.4609	33.68	19.2415	33.68	15.7334	36.76	11.4803	33.68	23.7402	33.68	10.6914	33.35	18.2285
33.84	20.2734	33.85	19.0912	33.84	13.0913	36.92	11.5876	33.84	6.3811	33.84	23.2012	33.52	10.542
34.01	20.0459	34.01	18.9498	34.01	28.7793	37.09	11.8082	34.01	16.8887	34.01	24.7998	33.68	15.0405
34.17	27.3477	34.17	18.8965	34.17	20.8096	37.25	12.9149	34.17	29.4678	34.17	15.9722	33.84	16.6221
34.33	23.1309	34.34	18.8369	34.33	10.3506	37.41	12.7818	34.33	8.4209	34.33	15.9019	34.01	22.4697
34.5	26.1396	34.5	18.7842	34.5	7.72681	37.58	13.0508	34.5	12.6201	34.5	14.0859	34.17	15.1094
34.66	18.7432	34.66	18.7908	34.66	10.3389	37.74	14.0887	34.66	25.0879	34.66	10.5234	34.33	19.8281
34.83	27.9229	34.83	18.9031	34.83	12.9604	37.9	14.7593	34.83	8.38281	34.83	19.3604	34.5	16.8633
34.99	18.9219	34.99	18.99	34.99	12.8252	38.07	16.3124	34.99	15.1431	34.99	8.77979	34.66	13.7539
35.15	32.334	35.15	19.0912	35.15	15.4287	38.23	17.2183	35.15	10.8452	35.15	7.02881	34.83	21.3701
35.32	18.6621	35.32	19.2072	35.32	2.61377	38.4	16.7531	35.32	12.6929	35.32	14.1567	34.99	16.9346
35.48	18.7236	35.48	19.3454	35.48	21.082	38.56	17.7101	35.48	16.5322	35.48	21.3418	35.15	16.793
35.64	16.9531	35.65	19.514	35.64	13.1353	38.72	16.5298	35.64	6.52319	35.64	12.5186	35.32	9.03906
35.81	24.1191	35.81	19.7072	35.81	10.4731	38.89	15.8943	35.81	12.958	35.81	24.8877	35.48	13.5386
35.97	25.6543	35.97	20.0081	35.97	13.2168	39.05	13.4763	35.97	10.5825	35.97	17.8037	35.64	10.501
36.13	29.2305	36.14	20.3413	36.13	36.7402	39.21	12.2757	36.13	8.38184	36.13	21.4238	35.81	15.0947
36.3	21.4922	36.3	20.6858	36.3	25.8965	39.38	10.3325	36.3	12.4873	36.3	21.2822	35.97	15.0869
36.46	14.7197	36.46	21.0092	36.46	17.9805	39.54	9.2532	36.46	12.3901	36.46	8.78223	36.13	8.9873
36.63	36.4258	36.63	21.3854	36.63	12.9814	39.7	8.26637	36.63	2.05298	36.63	22.7061	36.3	18.1299
36.79	30.8418	36.79	21.6875	36.79	12.938	39.87	7.60719	36.79	12.373	36.79	12.3105	36.46	16.6992
36.95	14.4272	36.95	22.0705	36.95	15.4922	40.03	6.77592	36.95	22.8057	36.95	10.6006	36.63	12.2017
37.12	30.9053	37.12	22.4578	37.12	15.5083	40.19	6.01948	37.12	14.4097	37.12	7.04712	36.79	4.54907
37.28	19.9316	37.28	22.8299	37.28	12.9463	40.36	5.43872	37.28	18.8516	37.28	27.9854	36.95	16.6494
37.44	35.373	37.45	23.2748	37.44	15.6353	40.52	5.04081	37.44	17.3984	37.44	19.4121	37.12	15.3032
37.61	22.2354	37.61	23.8322	37.61	10.354	40.69	4.57584	37.61	12.9019	37.61	28.5293	37.28	15.1978
37.77	14.9219	37.77	24.2297	37.77	15.6323	40.85	4.17529	37.77	8.47656	37.77	19.4541	37.44	16.7324
37.93	21.625	37.94	24.7429	37.93	13.1802	41.01	3.8039	37.93	10.5142	37.93	10.6191	37.61	13.5605
38.1	16.6816	38.1	25.3021	38.1	18.3125	41.18	3.60488	38.1	4.20532	38.1	8.89404	37.77	16.6523
38.26	10.9883	38.26	25.763	38.26	13.0728	41.34	3.46391	38.26	2.10095	38.26	10.7188	37.93	16.6641
38.43	25.4473	38.43	26.1771	38.43	15.6548	41.5	3.31573	38.43	6.20825	38.43	21.3975	38.1	19.4609
38.59	18.1416	38.59	26.7105	38.59	13.0698	41.67	3.25482	38.59	8.32373	38.59	8.85791	38.26	12.0708
38.75	21.7549	38.75	27.1148	38.75	0	41.83	3.21266	38.75	4.05322	38.75	14.2251	38.43	25.4297
38.92	14.4482	38.92	27.5598	38.92	10.3472	41.99	3.17158	38.92	10.2188	38.92	17.7109	38.59	20.9375
39.08	19.8369	39.08	27.9177	39.08	12.8911	42.16	3.14743	39.08	10.1567	39.08	15.9087	38.75	21.2285
39.24	24.8633	39.25	28.285	39.24	10.3828	42.32	3.1158	39.24	6.05566	39.24	10.5029	38.92	10.6147
39.41	25.9893	39.41	28.5555	39.41	10.3833	42.49	3.0925	39.41	5.99438	39.41	21.1475	39.08	15.2788
39.57	25.4238	39.57	28.94	39.57	15.4146	42.65	3.07715	39.57	13.7095	39.57	15.2827	39.24	12.2012
39.73	16.4209	39.74	29.1756	39.73	12.8916	42.81	3.07715	39.73	6.06958	39.73	25.0088	39.41	18.1826
39.9	30.9297	39.9	29.3991	39.9	13.0806	42.98	3.14743	39.9	6.38428	39.9	17.1855	39.57	19.9482
40.06	14.4604	40.06	29.6423	40.06	18.5645	43.14	3.21266	40.06	4.23218	40.06	12.5962	39.73	15.0835
40.23	14.5933	40.23	29.6587	40.23	13.146	43.3	3.31573	40.23	8.31592	40.23	26.7637	39.9	10.5698
40.39	18.417	40.39	29.6423	40.39	13.0913	43.47	3.40682	40.39	8.36914	40.39	12.5195	40.06	8.93164
40.55	20.8506	40.55	29.6096	40.55	10.604	43.63	3.73516	40.55	6.32861	40.55	25.2695	40.23	11.9658
40.72	29.8105	40.72	29.5121	40.72	21.0615	43.79	3.8039	40.72	16.6934	40.72	25.1582	40.39	17.0869
40.88	25.001	40.88	29.4313	40.88	25.8496	43.96	3.93673	40.88	14.5444	40.88	24.9141	40.55	13.4409
41.04	16.0439	41.04	29.3189	41.04	17.9043	44.12	4.2036	41.04	12.2197	41.04	28.1211	40.72	17.0049
41.21	13.647	41.21	29.0495	41.21	23.1816	44.29	4.38183	41.21	2.00867	41.21	22.5137	40.88	20.2871
41.37	23.7871	41.37	28.8004	41.37	12.9795	44.45	4.46063	41.37	10.1294			41.04	11.1177
41.53	15.8569	41.54	28.5555	41.53	23.1807	44.61	4.50929	41.53	5.64355			41.21	9.86084
41.7	14.9819	41.7	28.1812	41.7	23.2295	44.78	4.46063	41.7	14.2661			41.37	15.1372
41.86	18.5313	41.86	27.6875	41.86	7.79517	44.94	4.27607	41.86	12.0381			41.53	19.2363
42.02	22.1758	42.03	27.3355	42.02	23.4365	45.1	4.00022	42.02	14.2275				
42.19	20.3477	42.19	26.8708	42.19	23.3438	45.27	3.78071	42.19	12.2744				
42.35	32.9434	42.35	26.4346	42.35	18.2803	45.43	3.57371	42.35	10.7358				
42.52	30.9658	42.52	25.912	42.52	18.4072	45.59	3.43513	42.52	4.12769				
42.68	23.3643	42.68	25.579	42.68	23.5879	45.76	3.2981	42.68	14.6226				
42.84	16.4111	42.84	25.2071	42.84	20.9932	45.92	3.15544	42.84	12.6235				
43.01	24.1113	43.01	25.0193	43.01	7.82129	46.09	2.95965	43.01	8.39355				
43.17	19.8447	43.17	24.9728	43.17	10.4399	46.25	2.78674	43.17	6.24658				
43.33	25.9434	43.34	25.0777	43.33	18.0674	46.41	2.5412	43.33	16.499				
43.5	19.7383	43.5	25.4579	43.5	12.8594	46.58	2.35762	43.5	12.2217				
43.66	30.6826	43.66	25.726	43.66	33.5527	46.74	2.23444	43.66	6.17749				
43.82	19.5898	43.83	26.2538	43.82	28.4482	46.9	2.13445	43.82	6.12622				
43.99	25.46	43.99	26.8977	43.99	18.1719	47.07	2.12713	43.99	4.02393				
44.15	27.4609	44.15	27.4612	44.15	12.8936	47.23	2.09834	44.15	2.02405				
44.32	21.6426	44.32	28.1222	44.32	18.1328	47.39	2.12713	44.32	12.1353				
44.48	22.1211	44.48	28.7542	44.48	20.9424	47.56	2.11986	44.48	2.05115				
44.64	22.9609	44.64	29.3991	44.64	18.5127	47.72	2.11986	44.64	8.10742				
44.81	21.2256	44.81	29.9729	44.81	10.5234	47.89	2.09834	44.81	6.0835				
44.97	18.208	44.97	30.483	44.97	18.3057	48.05	2.08774	44.97	6.22388				
45.13	25.5723	45.14	30.7974	45.13	10.521	48.21	2.09126	45.13	6.37646				
45.3	12.7495	45.3	31.0107	45.3	15.7197	48.38	2.08774	45.3	10.3687				
45.46	16.207	45.46	31.2088	45.46	15.4658	48.54	2.09479	45.46	14.4072				
45.62	19.7295	45.63	31.3727	45.62	12.7251	48.7	2.11263	45.62	6.07544				
45.79	19.5684	45.79	31.4278	45.79	35.9805	48.87	2.12349	45.79	5.96045				
45.95	17.8789	45.95	31.391	45.95	7.79492	49.03	2.1833	45.95	7.98926				
46.12	16.2568	46.12	31.4278	46.12	7.75269	49.19	2.22243	46.12	6.06543				
46.28	27.5049	46.28	31.4462	46.28	15.5405	49.36	2.30504	46.28	10.1138				
46.44	15.5947	46.44	31.245	46.44	18.2012	49.52	2.42683	46.44	3.98242				
46.61	17.7676	46.61	31.2088	46.61	31.2656	49.69	2.52054	46.61	9.91553				
46.77	11.7144	46.77	31.3727	46.77	18.1309	49.85	2.73753	46.77	1.99744				
46.93	19.6406	46.94	32.3744	46.93	31.3066	50.01	2.89742	46.93	6.10718				
47.1	12.7017	47.1	34.9424	47.1	15.77	50.18	3.13947	47.1	3.99731				
47.26	13.7993	47.26	36.5588	47.26	15.6689	50.34	3.3882	47.26	6.10889				
47.42	18.0156	47.43	31.2269	47.42	23.4131	50.5	3.73516	47.42	6.29175				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
47.59	19.4121	47.59	26.8708	47.59	20.7402	50.67	3.89959	47.59	10.3882				
47.75	12.5684	47.75	25.4097	47.75	15.6387	50.83	4.2036	47.75	6.06714				
47.92	14.2847	47.92	24.4169	47.92	35.957	50.99	4.52574	47.92	8.00928				
48.08	16.1543	48.08	23.7479	48.08	28.2363	51.16	4.98008	48.08	7.85791				
48.24	7.24756	48.24	25.4699	48.24	12.8574	51.32	5.41498	48.24	5.93628				
48.41	16.251	48.41	28.7234	48.41	10.3481	51.49	5.76754	48.41	1.98749				
48.57	14.7168	48.57	30.2258	48.57	18.1123	51.65	6.10843	48.57	7.96802				
48.73	12.7534	48.74	31.0107	48.73	12.8687	51.81	6.359	48.73	11.9463				
48.9	12.6572	48.9	31.6126	48.9	15.4692	51.98	6.66665	48.9	7.86743				
49.06	10.4263	49.06	30.727	49.06	20.8975	52.14	6.66665	49.06	7.86401				
49.22	22.1016	49.23	30.0736	49.22	21.084	52.3	6.88884	49.22	5.89697				
49.39	23.8809	49.39	30.0064	49.39	15.6973	52.47	6.88884	49.39	3.94006				
49.55	21.8486	49.55	30.141	49.55	12.9946	52.63	6.96623	49.55	7.90381				
49.72	16.2207	49.72	30.294	49.72	21.0615	52.79	6.92732	49.72	9.92871				
49.88	14.1777	49.88	30.4312	49.88	23.3604	52.96	6.88884	49.88	13.9927				
50.04	14.1387	50.04	30.483	50.04	23.1846	53.12	6.77592	50.04	9.64209				
50.21	15.8086	50.21	30.6045	50.21	15.2124	53.28	6.66665	50.21	9.53613				
50.37	13.9956	50.37	30.6919	50.37	23.1455	53.45	6.45835	50.37	11.459				
50.53	15.9063	50.54	30.8327	50.53	23.4287	53.61	6.359	50.53	7.74072				
50.7	8.99609	50.7	31.0824	50.7	12.8936	53.78	6.20005	50.7	11.6436				
50.86	22.0244	50.86	31.2088	50.86	2.59729	53.94	6.10843	50.86	5.94751				
51.02	16.2773	51.03	31.2814	51.02	10.3813	54.1	5.82169	51.02	9.73828				
51.19	19.9082	51.19	31.2814	51.19	20.8838	54.27	5.51123	51.19	15.4531				
51.35	30.9033	51.35	31.3179	51.35	18.1416	54.43	5.41498	51.35	7.87427				
51.52	23.6797	51.52	31.4278	51.52	13.0503	54.59	4.98008	51.52	19.4805				
51.68	23.1875	51.68	31.5384	51.68	18.3682	54.76	4.69715	51.68	12.2178				
51.84	24.8242	51.84	31.6499	51.84	5.20361	54.92	4.54232	51.84	6.34082				
52.01	25.1543	52.01	31.6126	52.01	13.0313	55.08	4.29086	52.01	14.748				
52.17	14.3779	52.17	31.5384	52.17	5.18066	55.25	4.13354	52.17	8.35059				
52.33	17.918	52.34	31.3544	52.33	20.835	55.41	4.0393	52.33	6.0957				
52.5	14.27	52.5	31.2814	52.5	15.3784	55.58	3.97458	52.5	5.84985				
52.66	16.2207	52.66	31.0644	52.66	10.2886	55.74	3.88737	52.66	4.32153				
52.82	12.9028	52.83	30.8327	52.82	17.9941	55.9	3.92427	52.82	6.40552				
52.99	14.8545	52.99	30.4657	52.99	12.9321	56.07	3.97458	52.99	6.30518				
53.15	18.415	53.15	30.2258	53.15	18.1328	56.23	4.0525	53.15	14.7881				
53.32	18.4033	53.32	29.9897	53.32	15.4385	56.39	4.16128	53.32	21.04				
53.48	14.7578	53.48	29.7078	53.48	10.3062	56.56	4.41301	53.48	12.792				
53.64	9.21143	53.64	29.383	53.64	10.4883	56.72	4.67943	53.64	10.8105				
53.81	31.4199	53.81	29.0966	53.81	26.3213	56.88	5.04081	53.81	10.7412				
53.97	16.6514	53.97	28.8622	53.97	7.87915	57.05	5.3681	53.97	6.46289				
54.13	12.5308	54.14	28.6469	54.13	28.4521	57.21	5.66221	54.13	8.58545				
54.3	24.208	54.3	28.4196	54.3	26.2402	57.38	6.20005	54.3	6.40527				
54.46	14.7852	54.46	28.1812	54.46	23.1377	57.54	6.88884	54.46	8.49707				
54.62	20.3301	54.63	28.1075	54.62	20.2773	57.7	7.70168	54.62	8.50586				
54.79	16.7285	54.79	28.005	54.79	22.7803	57.87	8.55136	54.79	4.23682				
54.95	29.6279	54.95	27.9322	54.95	25.7412	58.03	10.2471	54.95	8.29932				
55.11	17.0068	55.12	27.8165	55.11	20.7588	58.19	11.9217	55.11	10.3457				
55.28	26.874	55.28	27.8165	55.28	12.8945	58.36	13.4763	55.28	8.32715				
55.44	19.3877	55.44	27.8598	55.44	12.9785	58.52	17.2183	55.44	10.3804				
55.61	13.2573	55.61	27.8165	55.61	12.9546	58.68	21.0105	55.61	12.4019				
55.77	18.7109	55.77	27.9322	55.77	15.6548	58.85	24.7904	55.77	10.3667				
55.93	26.4199	55.93	28.1075	55.93	20.665	59.01	30.2288	55.93	16.9814				
56.1	26.1816	56.1	28.3447	56.1	25.2051	59.18	38.7236	56.1	6.39941				
56.26	12.9678	56.26	28.5404	56.26	20.8486	59.34	68.7982	56.26	10.6523				
56.42	23.2314	56.43	28.8622	56.42	18.0732	59.5	77.384	56.42	4.229				
56.59	26.5674	56.59	29.1282	56.59	28.334	59.67	409.81	56.59	4.25439				
56.75	22.5498	56.75	29.5283	56.75	17.4639	59.83	-177.833	56.75	6.38672				
56.91	24.042	56.92	29.873	56.91	27.4238	59.99	-82.8228	56.91	10.5493				
57.08	29.5625	57.08	30.141	57.08	7.40674	60.16	-59.1296	57.08	23.0859				
57.24	20.6143	57.24	30.3968	57.24	9.91943	60.32	-51.7303	57.24	8.31445				
57.41	22.7441	57.41	30.4657	57.41	14.8604	60.48	-44.3333	57.41	10.3408				
57.57	18.9102	57.57	30.6219	57.57	17.3965	60.65	-41.3752	57.57	16.4668				
57.73	26.7822	57.73	30.7622	57.73	20.0225	60.81	-44.3333	57.73	6.1709				
57.9	17.2021	57.9	30.8504	57.9	12.3516	60.98	-49.6589	57.9	8.26807				
58.06	20.9473	58.06	30.9214	58.06	22.4834	61.14	-95.5905	58.06	10.2769				
58.22	11.3926	58.23	31.1184	58.22	15.2563	61.3	-249.341	58.22	10.3428				
58.39	15.1841	58.39	31.4278	58.39	15.2051	61.47	88.4182	58.39	10.5562				
58.55	18.9668	58.55	31.3727	58.55	25.0068	61.63	31.7779	58.55	8.46875				
58.71	20.8438	58.72	31.6126	58.71	18.0156	61.79	17.2183	58.71	6.02808				
58.88	27.9941	58.88	31.6872	58.88	20.2832	61.96	11.9217	58.88	16.6738				
59.04	27.9609	59.04	31.7809	59.04	10.0029	62.12	8.61074	59.04	10.5581				
59.21	11.1191	59.21	32.0462	59.21	9.95166	62.28	7.00558	59.21	10.5078				
59.37	26.0049	59.37	32.0845	59.37	14.9604	62.45	5.87686	59.37	14.4922				
59.53	27.5996	59.53	32.2384	59.53	10.1338	62.61	5.32203	59.53	12.25				
59.7	8.41797	59.7	32.3939	59.7	17.8164	62.78	4.88206	59.7	10.0596				
59.86	18.4619	59.86	32.6299	59.86	17.7666	62.94	4.59278	59.86	24.3877				
60.02	22.7451	60.03	32.8895	60.02	15.1699	63.1	4.39736	60.02	12.105				
60.19	13.3921	60.19	32.9905	60.19	15.2876	63.27	4.26137	60.19	20.1943				
60.35	26.6729	60.35	32.95	60.35	30.4648	63.43	4.14737	60.35	22.2715				
60.51	20.957	60.52	32.6894	60.51	15.2891	63.59	4.00022	60.51	32.4102				
60.68	11.5249	60.68	32.3354	60.68	20.2227	63.76	4.0525	60.68	18.7451				
60.84	28.4629	60.84	32.0462	60.84	15.063	63.92	4.0393	60.84	25.25				
61.01	13.0068	61.01	31.4646	61.01	12.8472	64.08	4.09262	61.01	24.9082				
61.17	21.9932	61.17	30.9037	61.17	12.7109	64.25	4.23229	61.17	16.6416				
61.33	14.8936	61.33	30.414	61.33	12.6587	64.41	4.41301	61.33	24.8936				
61.5	18.4912	61.5	30.1918	61.5	32.5313	64.58	4.66184	61.5	16.5234				
61.66	14.7778	61.66	30.0736	61.66	10.1216	64.74	4.90136	61.66	20.3359				
61.82	12.9424	61.83	30.04	61.82	5.04858	64.9	5.06138	61.82	26.6602				
61.99	18.7422	61.99	30.3624	61.99	10.0474	65.07	5.32203	61.99	22.2891				
62.15	31.6709	62.15	31.0107	62.15	12.7007	65.23	5.61097	62.15	20.2432				
62.31	9.28564	62.32	31.6126	62.31	10.1201	65.39	6.07849	62.31	28.2256				
62.48	20.5732	62.48	32.2578	62.48	25.3408	65.56	6.631	62.48	20.1338				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
62.64	28.2178	62.64	32.8292	62.64	17.792	65.72	7.25135	62.64	18.1348				
62.81	14.8384	62.81	33.1533	62.81	15.5112	65.88	7.89786	62.81	21.6934				
62.97	18.6143	62.97	33.6515	62.97	20.5654	66.05	8.55136	62.97	24.5898				
63.13	15.0532	63.13	33.9277	63.13	35.7109	66.21	9.91929	63.13	12.6914				
63.3	20.54	63.3	34.3396	63.3	23.04	66.37	11.0704	63.3	27.0713				
63.46	11.019	63.46	34.7616	63.46	27.9941	66.54	13.0508	63.46	24.6055				
63.62	30.8906	63.63	35.1711	63.62	22.7666	66.7	15.6932	63.62	12.3843				
63.79	12.8745	63.79	35.4729	63.79	19.8477	66.87	17.2183	63.79	22.7891				
63.95	13.0029	63.95	35.4028	63.95	12.5518	67.03	21.0105	63.95	26.5264				
64.11	22.1172	64.12	35.4028	64.11	27.9502	67.19	25.2961	64.11	20.3691				
64.28	25.54	64.28	35.4261	64.28	25.4834	67.36	32.6136	64.28	22.2607				
64.44	12.6836	64.44	35.8037	64.44	22.8506	67.52	49.5549	64.44	14.1973				
64.61	21.7305	64.61	35.9715	64.61	10.1001	67.68	88.4182	64.61	26.3252				
64.77	19.9951	64.77	36.1651	64.77	15.3184	67.85	154.515	64.77	42.4512				
64.93	26.085	64.93	36.4596	64.93	30.7354	68.01	-312.088	64.93	30.4355				
65.1	27.4297	65.1	36.5837	65.1	20.417	68.17	-312.088	65.1	26.3887				
65.26	12.6875	65.26	36.6835	65.26	12.7354	68.34	-103.574	65.26	30.4893				
65.42	20.666	65.43	36.6086	65.42	38.3008	68.5	-65.3624	65.42	18.249				
65.59	14.5649	65.59	36.4596	65.59	15.4453	68.67	-53.982	65.59	36.127				
65.75	14.707	65.75	36.3118	65.75	15.2583	68.83	-41.3752	65.75	28.2441				
65.91	20.1826	65.92	36.3118	65.91	10.041	68.99	-33.5419	65.91	30.9678				
66.08	12.6953	66.08	36.4596	66.08	17.625	69.16	-29.5463	66.08	22.8145				
66.24	12.8096	66.24	36.4102	66.24	15.2939	69.32	-25.851	66.24	26.5635				
66.41	23.5703	66.41	36.4843	66.41	22.7217	69.48	-26.9756	66.41	24.5088				
66.57	16.8418	66.57	36.5837	66.57	22.7285	69.65	-22.5593	66.57	34.3027				
66.73	14.4849	66.73	36.885	66.73	22.9141	69.81	-20.3394	66.73	15.9126				
66.9	26.8301	66.9	37.0375	66.9	17.7715	69.97	-18.7979	66.9	33.9648				
67.06	9.0625	67.06	37.2428	67.06	20.3174	70.14	-16.765	67.06	23.9111				
67.22	14.5933	67.23	37.3983	67.22	12.7593	70.3	-14.9465	67.22	17.874				
67.39	14.6396	67.39	37.6604	67.39	28.3467	70.47	-14.2591	67.39	33.7773				
67.55	14.3066	67.55	37.8994	67.55	20.5137	70.63	-13.7837	67.55	35.8125				
67.71	23.4648	67.72	37.9798	67.71	22.9854	70.79	-12.6582	67.71	36.3164				
67.88	12.7554	67.88	37.953	67.88	12.7261	70.96	-12.5303	67.88	22.3809				
68.04	20.2793	68.04	38.1686	68.04	15.2534	71.12	-11.5932	68.04	36.4531				
68.21	30.9141	68.21	37.8994	68.21	12.564	71.28	-11.5932	68.21	26.2793				
68.37	14.4556	68.37	37.7663	68.37	5.0061	71.45	-10.9775	68.37	24.9297				
68.53	12.9492	68.53	37.953	68.53	15.0972	71.61	-10.337	68.53	30.6113				
68.7	16.3848	68.7	38.2229	68.7	22.874	71.77	-10.337	68.7	13.9663				
68.86	23.833	68.86	38.5519	68.86	17.8594	71.94	-10.2516	68.86	21.499				
69.02	9.07813	69.02	38.6907	69.02	17.7236	72.1	-9.92345	69.02	40.6719				
69.19	16.5186	69.19	39.2559	69.19	7.57788	72.27	-10.0035	69.19	17.5518				
69.35	18.1191	69.35	39.6323	69.35	17.875	72.43	-9.61569	69.35	11.6738				
69.51	16.7793	69.52	39.7201	69.51	17.9922	72.59	-10.0848	69.51	30.7598				
69.68	27.8965	69.68	39.8379	69.68	17.9072	72.76	-10.0848	69.68	27.0479				
69.84	12.8262	69.84	39.9861	69.84	20.3047	72.92	-10.6021	69.84	27.0654				
70	14.6909	70.01	40.1055	70	10.2642	73.08	-10.6021	70	27.6387				
70.17	7.31177	70.17	39.9861	70.17	20.502	73.25	-11.1754	70.17	35.7344				
70.33	14.5913	70.33	39.9267	70.33	20.2695	73.41	-11.0756	70.33	31.6953				
70.5	18.0166	70.5	40.0159	70.5	7.4873	73.57	-11.277	70.5	25.1338				
70.66	21.5918	70.66	39.8379	70.66	27.9287	73.74	-11.7026	70.66	24.5088				
70.82	14.3711	70.82	39.6908	70.82	27.8301	73.9	-11.1754	70.82	22.0977				
70.99	16.3477	70.99	39.6031	70.99	15.106	74.07	-10.9775	70.99	35.4766				
71.15	21.9395	71.15	39.4867	71.15	17.5996	74.23	-10.337	71.15	28.8301				
71.31	14.5938	71.32	39.4867	71.31	10.0889	74.39	-10.2516	71.31	17.9395				
71.48	10.8311	71.48	39.371	71.48	2.54333	74.56	-10.0848	71.48	21.8223				
71.64	19.9561	71.64	39.2559	71.64	2.53735	74.72	-9.76715	71.64	19.9238				
71.8	16.6826	71.81	39.371	71.8	12.7979	74.88	-9.76715	71.8	25.8301				
71.97	26.0361	71.97	39.6031	71.97	15.4771	75.05	-9.61569	71.97	23.5293				
72.13	14.5854	72.13	39.7201	72.13	10.3345	75.21	-9.46885	72.13	42.1309				
72.3	21.9082	72.3	40.0159	72.3	15.4067	75.37	-9.12067	72.3	29.29				
72.46	9.22607	72.46	40.2256	72.46	5.07544	75.54	-9.76715	72.46	27.4443				
72.62	12.7842	72.62	40.4374	72.62	20.2383	75.7	-10.0035	72.62	29.0459				
72.79	16.2617	72.79	40.4679	72.79	17.5479	75.87	-10.4239	72.79	27.0186				
72.95	16.0391	72.95	40.3161	72.95	12.5884	76.03	-11.277	72.95	43.1504				
73.11	14.3896	73.12	40.7131	73.11	10.0518	76.19	-14.9465	73.11	43.0293				
73.28	12.8745	73.28	41.1496	73.28	10.1753	76.36	-20.0112	73.28	36.6523				
73.44	25.6543	73.44	41.6277	73.44	20.377	76.52	-38.7871	73.44	28.9805				
73.6	16.5752	73.61	41.9526	73.6	27.7998	76.68	-312.088	73.6	24.8271				
73.77	14.5732	73.77	42.618	73.77	15.1802	76.85	68.7982	73.77	20.6758				
73.93	26.0303	73.93	43.2004	73.93	7.67383	77.01	32.6136	73.93	30.9502				
74.1	14.9028	74.1	43.7277	74.1	5.1228	77.17	23.3879	74.1	30.9844				
74.26	20.6895	74.26	43.8704	74.26	12.772	77.34	21.0105	74.26	35.1445				
74.42	19.5996	74.42	44.0142	74.42	17.7939	77.5	19.9943	74.42	27.084				
74.59	16.7109	74.59	44.3776	74.59	18.0195	77.67	20.322	74.59	29.5996				
74.75	11.2637	74.75	44.6356	74.75	10.2681	77.83	23.3879	74.75	33.6465				
74.91	18.6475	74.92	44.8592	74.91	10.1108	77.99	29.5095	74.91	18.8281				
75.08	13.0532	75.08	45.085	75.08	15.0693	78.16	36.4475	75.08	37.4199				
75.24	24.0029	75.24	45.085	75.24	2.54346	78.32	42.7259	75.24	29.2285				
75.4	18.6016	75.41	44.8218	75.4	10.1123	78.48	68.7982	75.4	27.0957				
75.57	16.4756	75.57	44.0864	75.57	10.062	78.65	154.515	75.57	29.2305				
75.73	21.8359	75.73	43.2004	75.73	25.1191	78.81	1208.5	75.73	24.9844				
75.9	14.3066	75.9	42.618	75.9	15.1592	78.97	-77.6379	75.9	26.8213				
76.06	23.9258	76.06	41.8872	76.06	7.6416	79.14	-38.7871	76.06	37.2598				
76.22	11.1846	76.22	41.1181	76.22	10.1982	79.3	-29.5463	76.22	43.4297				
76.39	22.2559	76.39	40.4374	76.39	12.7935	79.46	-19.6935	76.39	53.5156				
76.55	20.583	76.55	39.8379	76.55	5.12842	79.63	-17.7234	76.55	43.1465				
76.71	13.0049	76.72	38.8867	76.71	20.5938	79.79	-14.9465	76.71	32.9512				
76.88	22.3301	76.88	38.2773	76.88	10.1782	79.96	-13.058	76.88	23.2793				
77.04	16.8633	77.04	37.7397	77.04	15.1958	80.12	-12.6582	77.04	42.3379				
77.2	16.8105	77.21	37.217	77.2	2.51904	80.28	-11.9277	77.2	37.8047				
77.37	18.627	77.37	36.8344	77.37	15.1699	80.45	-11.1754	77.37	31.3604				
77.53	13.0952	77.53	36.6585	77.53	15.1392	80.61	-10.4239	77.53	25.2656				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
77.7	20.3438	77.7	36.4843	77.7	17.54	80.77	-10.0848	77.7	23.0928				
77.86	14.5815	77.86	36.5091	77.86	15.2554	80.94	-9.46885	77.86	20.7383				
78.02	19.9092	78.02	36.784	78.02	22.7783	81.1	-9.32644	78.02	33.1914				
78.19	21.667	78.19	36.784	78.19	7.56543	81.26	-8.79718	78.19	22.8916				
78.35	18.1816	78.35	36.9103	78.35	12.5796	81.43	-9.12067	78.35	16.5928				
78.51	18.0557	78.52	36.9103	78.51	20.4746	81.59	-9.92345	78.51	26.8701				
78.68	24.0527	78.68	36.9357	78.68	10.2388	81.76	-10.337	78.68	28.9443				
78.84	13.1675	78.84	37.1399	78.84	30.543	81.92	-11.277	78.84	31.2549				
79	11.2783	79.01	37.0375	79	22.918	82.08	-11.5932	79	31.1055				
79.17	13.0605	79.17	37.012	79.17	15.3403	82.25	-11.9277	79.17	45.9902				
79.33	20.2393	79.33	37.0375	79.33	20.4561	82.41	-12.405	79.33	33.8223				
79.5	20.2959	79.5	37.3204	79.5	12.5356	82.57	-12.405	79.5	59.0801				
79.66	16.5244	79.66	37.4504	79.66	7.5686	82.74	-12.5303	79.66	27.0889				
79.82	16.3936	79.82	37.5027	79.82	15.1401	82.9	-12.6582	79.82	31.1279				
79.99	21.8408	79.99	37.5289	79.99	17.6221	83.06	-12.5303	79.99	33.4375				
80.15	31.0449	80.15	37.5289	80.15	25.124	83.23	-12.5303	80.15	21.1221				
80.31	14.5669	80.32	37.5551	80.31	9.99609	83.39	-13.058	80.31	39.7246				
80.48	25.2803	80.48	37.6604	80.48	7.5813	83.56	-12.922	80.48	27.0615				
80.64	18.1289	80.64	38.0605	80.64	5.08667	83.72	-12.922	80.64	28.8027				
80.8	19.7393	80.81	37.9798	80.8	20.4375	83.88	-12.1617	80.8	20.4307				
80.97	18.4375	80.97	38.0605	80.97	12.7612	84.05	-11.9277	80.97	22.3418				
81.13	7.46558	81.13	38.0066	81.13	23.1201	84.21	-11.4859	81.13	26.3721				
81.3	14.8481	81.3	37.953	81.3	20.5645	84.37	-11.1754	81.3	14.1445				
81.46	12.9458	81.46	38.0874	81.46	12.6509	84.54	-11.0756	81.46	32.9375				
81.62	21.7461	81.62	38.1957	81.62	17.6367	84.7	-10.2516	81.62	25.1318				
81.79	21.5957	81.79	38.1686	81.79	15.0391	84.86	-9.61569	81.79	22.9287				
81.95	7.19678	81.95	38.0874	81.95	7.57104	85.03	-9.39711	81.95	30.9414				
82.11	19.9922	82.11	38.1957	82.11	17.5352	85.19	-8.92378	82.11	39.002				
82.28	12.4404	82.28	38.5519	82.28	12.5542	85.36	-8.79718	82.28	30.9316				
82.44	27.3242	82.44	38.9995	82.44	15.1221	85.52	-8.55445	82.44	30.9258				
82.6	21.6826	82.61	39.3998	82.6	17.6631	85.68	-8.55445	82.6	34.5996				
82.77	14.4888	82.77	39.7201	82.77	10.0596	85.85	-8.79718	82.77	16.3936				
82.93	19.9502	82.93	39.9861	82.93	17.6533	86.01	-8.79718	82.93	24.2451				
83.09	14.4063	83.1	40.1955	83.09	22.9316	86.17	-8.61387	83.09	9.96045				
83.26	18.043	83.26	40.1354	83.26	23.0088	86.34	-8.38102	83.26	19.9072				
83.42	12.8101	83.42	39.7495	83.42	33.0469	86.5	-8.38102	83.42	16.0596				
83.59	12.9375	83.59	39.6031	83.59	22.9277	86.66	-8.61387	83.59	16.0107				
83.75	12.8472	83.75	39.4577	83.75	17.9385	86.83	-8.38102	83.75	16.1904				
83.91	23.3125	83.91	39.2846	83.91	7.61621	86.99	-8.32476	83.91	10.2607				
84.08	18.0898	84.08	39.1416	84.08	27.7891	87.16	-8.38102	84.08	18.3477				
84.24	27.1201	84.24	39.2559	84.24	12.5737	87.32	-8.49585	84.24	18.4443				
84.4	25.0146	84.41	39.0846	84.4	27.7871	87.48	-8.32476	84.4	22.166				
84.57	18.7373	84.57	39.0846	84.57	12.6567	87.65	-8.73522	84.57	24.1807				
84.73	21.832	84.73	39.3421	84.73	20.1309	87.81	-8.92378	84.73	22.0137				
84.89	30.8252	84.9	39.5739	84.89	17.5732	87.97	-8.86003	84.89	15.8296				
85.06	12.6265	85.06	39.9861	85.06	10.1792	88.14	-9.76715	85.06	15.668				
85.22	12.665	85.22	40.1955	85.22	23.2051	88.3	-10.2516	85.22	11.5371				
85.39	25.3018	85.39	40.0159	85.39	15.4209	88.46	-12.1617	85.39	17.3838				
85.55	16.4072	85.55	39.6908	85.55	7.68433	88.63	-14.2591	85.55	28.7305				
85.71	19.7393	85.71	39.4867	85.71	2.58826	88.79	-16.1116	85.71	7.82886				
85.88	21.8691	85.88	39.1416	85.88	5.14087	88.96	-19.6935	85.88	19.5498				
86.04	9.06152	86.04	38.7465	86.04	10.187	89.12	-21.0292	86.04	9.66016				
86.2	12.5981	86.21	38.3046	86.2	17.6445	89.28	-18.5173	86.2	9.42188				
86.37	23.3164	86.37	37.5814	86.37	7.62427	89.45	-17.9803	86.37	13.9468				
86.53	17.8828	86.53	37.1399	86.53	33.0781	89.61	-16.765	86.53	6.11499				
86.69	15.9487	86.7	36.6585	86.69	7.59424	89.77	-15.7036	86.69	10.0234				
86.86	24.9053	86.86	36.2139	86.86	10.147	89.94	-14.2591	86.86	12.0083				
87.02	17.6299	87.02	35.9715	87.02	27.9746	90.1	-13.6322	87.02	11.8945				
87.19	12.2813	87.19	35.5903	87.19	17.876	90.26	-13.484	87.19	9.52783				
87.35	17.4063	87.35	34.897	87.35	27.8799	90.43	-13.6322	87.35	22.9648				
87.51	15.7192	87.51	34.3835	87.51	12.7773	90.59	-12.1617	87.51	18.7441				
87.68	22.5537	87.68	33.5674	87.68	20.6758	90.76	-11.5932	87.68	18.1563				
87.84	26.0479	87.84	32.4722	87.84	12.8848	90.92	-10.9775	87.84	11.5063				
88	21.0674	88.01	31.2996	88	23.1182	91.08	-10.6936	88	21.6201				
88.17	14.5547	88.17	30.3624	88.17	22.9678	91.25	-11.1754	88.17	5.81982				
88.33	12.1929	88.33	29.383	88.33	5.13989	91.41	-12.6582	88.33	3.84167				
88.49	19.46	88.5	28.4196	88.49	12.6992	91.57	-13.484	88.49	7.552				
88.66	10.7314	88.66	27.6164	88.66	12.7031	91.74	-14.7686	88.66	8.25439				
88.82	12.4316	88.82	27.0058	88.82	5.02954	91.9	-16.1116	88.82	11.9956				
88.99	15.7207	88.99	26.5128	88.99	5.07715	92.06	-17.4737	88.99	5.96948				
89.15	27.4736	89.15	26.1389	89.15	10.1528	92.23	-17.4737	89.15	15.625				
89.31	18.9658	89.31	25.8497	89.31	17.625	92.39	-18.7979	89.31	17.5029				
89.48	10.5415	89.48	25.4579	89.48	20.2178	92.55	-17.4737	89.48	9.66406				
89.64	18.9756	89.64	25.2071	89.64	7.68823	92.72	-17.4737	89.64	17.2578				
89.8	24.2471	89.81	24.9265	89.8	20.6689	92.88	-16.765	89.8	13.4243				
89.97	17.542	89.97	24.5844	89.97	15.4087	93.05	-16.765	89.97	13.6128				
90.13	21.7148	90.13	24.3285	90.13	22.9883	93.21	-15.3157	90.13	15.5122				
90.29	9.12598	90.3	24.121	90.29	23.2705	93.37	-15.1289	90.29	27.0313				
90.46	23.3154	90.46	23.8745	90.46	10.2861	93.54	-13.6322	90.46	21.2012				
90.62	17.584	90.62	23.6643	90.62	17.7275	93.7	-12.5303	90.62	7.76709				
90.79	28.374	90.79	23.4475	90.79	12.6157	93.86	-12.5303	90.79	24.3359				
90.95	22.9268	90.95	23.1845	90.95	10.1782	94.03	-11.4859	90.95	13.8677				
91.11	22.4707	91.11	22.996	91.11	25.415	94.19	-11.9277	91.11	36.0313				
91.28	14.6582	91.28	22.859	91.28	15.2222	94.35	-11.277	91.28	18.0488				
91.44	29.1416	91.44	22.8493	91.44	7.573	94.52	-11.9277	91.44	23.4805				
91.6	17.8691	91.61	22.8882	91.6	15.3423	94.68	-12.405	91.6	14.6255				
91.77	26.5293	91.77	23.0157	91.77	7.64038	94.85	-12.6582	91.77	14.0298				
91.93	30.2256	91.93	23.0354	91.93	30.5557	95.01	-13.058	91.93	22.2236				
92.09	26.6807	92.1	23.0552	92.09	17.9395	95.17	-13.484	92.09	17.8008				
92.26	17.6895	92.26	23.0651	92.26	43.7188	95.34	-13.058	92.26	15.9194				
92.42	36.0645	92.42	23.0948	92.42	10.3257	95.5	-13.7837	92.42	20.8418				
92.59	35.0742	92.59	23.1147	92.59	20.4941	95.66	-13.197	92.59	18.6387				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
92.75	35.2578	92.75	23.2245	92.75	23.0137	95.83	-13.197	92.75	8.3208				
92.91	29.2813	92.91	23.4475	92.91	28.04	95.99	-14.0971	92.91	16.6943				
93.08	29.1426	93.08	23.5605	93.08	20.416	96.15	-14.0971	93.08	6.2998				
93.24	35.0215	93.24	23.5812	93.24	7.59424	96.32	-14.425	93.24	4.19141				
93.4	27.3965	93.41	23.6227	93.4	12.5552	96.48	-15.1289	93.4	6.229				
93.57	12.7544	93.57	23.4475	93.57	15.2285	96.65	-16.9948	93.57	12.2095				
93.73	25.3066	93.73	23.3456	93.73	17.709	96.81	-21.3919	93.73	10.2817				
93.89	19.8545	93.9	23.3051	93.89	17.7412	96.97	-29.5463	93.89	16.335				
94.06	29.1943	94.06	23.3964	94.06	20.2715	97.14	-51.7303	94.06	10.1338				
94.22	37.9277	94.22	23.4782	94.22	18.0771	97.3	-249.341	94.22	13.856				
94.39	25.2129	94.39	23.5812	94.39	18.1465	97.46	68.7982	94.39	15.8638				
94.55	30.7617	94.55	23.7795	94.55	23.085	97.63	32.6136	94.55	9.9292				
94.71	9.31494	94.71	23.8745	94.71	10.2471	97.79	19.6771	94.71	5.95288				
94.88	23.6221	94.88	24.1535	94.88	12.8096	97.95	14.4162	94.88	21.6563				
95.04	31.0244	95.04	24.3505	95.04	23.001	98.12	11.9217	95.04	23.79				
95.2	32.8594	95.2	24.562	95.2	25.1836	98.28	10.9724	95.2	16.2998				
95.37	27.46	95.37	24.9612	95.37	20.1406	98.45	10.5974	95.37	22.4971				
95.53	18.2559	95.53	25.1364	95.53	10.1626	98.61	10.1632	95.53	24.5195				
95.69	18.2881	95.7	25.1129	95.69	22.8838	98.77	9.53786	95.69	8.16113				
95.86	20.1494	95.86	24.8458	95.86	10.1074	98.94	9.53786	95.86	12.3452				
96.02	23.8281	96.02	24.7771	96.02	22.7578	99.1	9.05062	96.02	12.1748				
96.18	19.9805	96.19	24.6295	96.18	17.7656	99.26	8.98504	96.18	15.8618				
96.35	30.1914	96.35	24.3615	96.35	22.9102	99.43	8.61074	96.35	17.8672				
96.51	28.9463	96.51	24.0994	96.51	15.3237	99.59	8.55136	96.51	5.94946				
96.68	34.4277	96.68	23.917	96.68	22.9727	99.75	8.55136	96.68	5.93262				
96.84	12.6567	96.84	23.7374	96.84	12.8413	99.92	9.11715	96.84	11.8477				
97	12.6743	97	23.427	97	18.084	100.08	9.84059	97	17.8438				
97.17	25.4639	97.17	23.2145	97.17	28.3574	100.25	10.1632	97.17	15.9863				
97.33	18.457	97.33	22.996	97.33	7.62061	100.41	11.0704	97.33	13.71				
97.49	20.1836	97.5	22.8105	97.49	5.07178	100.57	11.8082	97.49	22.251				
97.66	25.5156	97.66	22.628	97.66	15.2734	100.74	12.3985	97.66	24.0195				
97.82	22.0693	97.82	22.3458	97.82	12.5679	100.9	12.9149	97.82	16.0615				
97.98	14.6831	97.99	22.0433	97.98	12.5693	101.06	14.2506	97.98	8.01563				
98.15	23.5137	98.15	21.5657	98.15	2.53455	101.23	14.9371	98.15	6.10205				
98.31	27.6299	98.31	21.0421	98.31	17.7373	101.39	17.7101	98.31	16.0215				
98.48	30.7227	98.48	20.4574	98.48	10.1426	101.55	22.5378	98.48	7.96313				
98.64	25.4863	98.64	19.7362	98.64	25.5146	101.72	22.955	98.64	11.8555				
98.8	26.7686	98.8	18.9833	98.8	15.522	101.88	30.2288	98.8	15.4858				
98.97	23.2998	98.97	18.1805	98.97	25.8262	102.05	37.5511	98.97	15.5576				
99.13	17.8877	99.13	17.2858	99.13	23.1465	102.21	42.7259	99.13	19.4463				
99.29	38.7227	99.3	16.4297	99.29	20.4561	102.37	51.6175	99.29	19.4277				
99.46	24.8467	99.46	15.6044	99.46	28.2979	102.54	61.9274	99.46	13.5239				
99.62	35.5195	99.62	14.891	99.62	15.2334	102.7	44.2504	99.62	11.647				
99.78	24.6475	99.79	14.2627	99.78	22.6035	102.86	37.5511	99.78	21.3125				
99.95	21.1992	99.95	13.6922	99.95	25.1123	103.03	31.7779	99.95	12.0132				
100.11	22.4375	100.11	13.2044	100.11	5.07544	103.19	24.3046	100.11	7.72876				
100.28	28.6064	100.28	12.7441	100.28	15.2563	103.35	16.5298	100.28	11.9546				
100.44	35.9805	100.44	12.3204	100.44	22.6738	103.52	12.5237	100.44	14.1553				
100.6	36.5527	100.6	11.9453	100.6	22.748	103.68	9.99927	100.6	11.4087				
100.77	28.957	100.77	11.6198	100.77	10.1802	103.85	7.79854	100.77	11.6719				
100.93	18.0576	100.93	11.3691	100.93	15.4023	104.01	6.77592	100.93	7.69141				
101.09	30.0723	101.1	11.1267	101.09	12.7451	104.17	5.99041	101.09	9.49072				
101.26	18.0537	101.26	10.8988	101.26	25.5605	104.34	5.61097	101.26	9.53906				
101.42	23.0117	101.42	10.6842	101.42	10.311	104.5	5.18843	101.42	9.52002				
101.58	29.5039	101.59	10.4617	101.58	20.6641	104.66	5.12412	101.58	7.61865				
101.75	21.0117	101.75	10.2151	101.75	30.6113	104.83	5.27674	101.75	9.60254				
101.91	28.0576	101.91	10.0059	101.91	25.2646	104.99	5.56065	101.91	13.3945				
102.08	31.3154	102.08	9.81227	102.08	17.8125	105.15	5.74084	102.08	9.73828				
102.24	22.4365	102.24	9.64497	102.24	20.3213	105.32	6.01948	102.24	13.8057				
102.4	26.0371	102.4	9.48663	102.4	17.627	105.48	6.66665	102.4	9.90088				
102.57	31.1689	102.57	9.34965	102.57	12.5776	105.65	7.25135	102.57	5.99561				
102.73	30.8252	102.73	9.20867	102.73	22.8252	105.81	7.515	102.73	7.90747				
102.89	30.9824	102.9	9.0949	102.89	12.7114	105.97	8.26637	102.89	17.4756				
103.06	27.4756	103.06	8.99143	103.06	10.1787	106.14	8.61074	103.06	13.5327				
103.22	41.2793	103.22	8.90502	103.22	10.2817	106.3	8.85671	103.22	7.70044				
103.38	36.9785	103.39	8.86243	103.38	12.9092	106.46	9.11715	103.38	1.93439				
103.55	31.5156	103.55	8.84347	103.55	20.6377	106.63	9.32276	103.55	5.80151				
103.71	38.4219	103.71	8.87414	103.71	10.2612	106.79	9.2532	103.71	11.5781				
103.88	27.6719	103.88	8.94653	103.88	23.0352	106.95	8.26637	103.88	9.5332				
104.04	27.4609	104.04	9.05964	104.04	15.3501	107.12	7.25135	104.04	11.3765				
104.2	30.9219	104.2	9.21182	104.2	10.1021	107.28	6.359	104.2	5.74194				
104.37	41.3418	104.37	9.38393	104.37	17.7236	107.44	5.84914	104.37	7.61523				
104.53	39.7793	104.53	9.57111	104.53	20.1865	107.61	5.43872	104.53	5.84888				
104.69	20.6641	104.7	9.78903	104.69	20.3604	107.77	5.12412	104.69	9.71045				
104.86	27.3467	104.86	10.0171	104.86	7.64502	107.94	4.84392	104.86	8.21826				
105.02	37.6074	105.02	10.2639	105.02	25.4014	108.1	4.76941	105.02	8.0083				
105.18	28.4678	105.19	10.5479	105.18	22.8086	108.26	4.73301	105.18	7.92578				
105.35	40.2715	105.35	10.8328	105.35	25.5967	108.43	4.57584	105.35	5.91504				
105.51	26.6748	105.51	11.0876	105.51	20.5811	108.59	4.44464	105.51	11.8018				
105.68	28.459	105.68	11.326	105.68	15.3223	108.75	4.27607	105.68	5.93115				
105.84	20.0215	105.84	11.5524	105.84	12.7402	108.92	4.14737	105.84	5.95337				
106	37.7656	106	11.7161	106	15.415	109.08	4.10617	106	7.91089				
106.17	36.377	106.17	11.8845	106.17	18.0469	109.24	3.93673	106.17	9.85986				
106.33	25.5645	106.33	12.012	106.33	33.0156	109.41	3.89959	106.33	7.9187				
106.49	27.1338	106.5	12.1533	106.49	30.4521	109.57	3.85115	106.49	3.71558				
106.66	30.2031	106.66	12.3007	106.66	15.2969	109.74	3.73516	106.66	10.1445				
106.82	28.707	106.82	12.3972	106.82	33.0215	109.9	3.72395	106.82	6.08228				
106.98	28.5879	106.99	12.4923	106.98	17.6973	110.06	3.70172	106.98	14.1484				
107.15	27.0527	107.15	12.5535	107.15	12.6377	110.23	3.60488	107.15	4.00439				
107.31	26.6875	107.31	12.5829	107.31	10.1709	110.39	3.48337	107.31	7.9563				
107.48	45.9277	107.48	12.6243	107.48	10.2285	110.55	3.32462	107.48	11.8867				
107.64	29.0039	107.64	12.6779	107.64	15.3906	110.72	3.25482	107.64	9.91943				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
107.8	25.1748	107.8	12.814	107.8	10.2695	110.88	3.20436	107.8	15.8394				
107.97	45.043	107.97	13.0378	107.97	18.1123	111.04	3.17971	107.97	9.84375				
108.13	32.1914	108.13	13.3024	108.13	20.6377	111.21	3.21266	108.13	11.7607				
108.29	32.7109	108.3	13.6193	108.29	12.7119	111.37	3.2981	108.29	13.8125				
108.46	30.2803	108.46	13.9336	108.46	25.3486	111.54	3.3882	108.46	13.6294				
108.62	36.7422	108.62	14.2513	108.62	10.1333	111.7	3.60488	108.62	14.0596				
108.78	16.207	108.79	14.5326	108.78	22.8584	111.86	3.76922	108.78	22.3291				
108.95	21.416	108.95	14.8417	108.95	10.1436	112.03	3.8039	108.95	24.6094				
109.11	23.8076	109.11	15.1641	109.11	15.2036	112.19	3.98735	109.11	14.248				
109.27	21.9922	109.28	15.5323	109.27	20.3701	112.35	4.10617	109.27	24.2939				
109.44	19.2676	109.44	15.9755	109.44	40.7363	112.52	4.29086	109.44	22.3936				
109.6	17.0439	109.6	16.4197	109.6	20.334	112.68	4.47673	109.6	14.2275				
109.77	14.0815	109.77	16.8999	109.77	10.1172	112.84	4.62705	109.77	20.1777				
109.93	26.5703	109.93	17.3137	109.93	23.1328	113.01	4.80638	109.93	10.0474				
110.09	10.7197	110.09	17.7365	110.09	17.9805	113.17	5.04081	110.09	17.9541				
110.26	9.24707	110.26	18.0584	110.26	20.3301	113.34	5.32203	110.26	12.1094				
110.42	21.7461	110.42	18.3481	110.42	10.2036	113.5	5.56065	110.42	18.1006				
110.58	14.6973	110.59	18.6603	110.58	20.5684	113.66	6.10843	110.58	26.0605				
110.75	21.1973	110.75	18.8766	110.75	17.9043	113.83	6.66665	110.75	16.0732				
110.91	10.9585	110.91	19.0844	110.91	37.8398	113.99	7.33716	110.91	14.1548				
111.07	10.9722	111.08	19.2622	111.07	25.3135	114.15	8.21163	111.07	16.1885				
111.24	29.2041	111.24	19.4575	111.24	32.9648	114.32	8.61074	111.24	24.3018				
111.4	9.04883	111.4	19.5851	111.4	25.5186	114.48	9.68686	111.4	14.103				
111.57	23.4121	111.57	19.6712	111.57	27.71	114.64	10.7816	111.57	28.3633				
111.73	10.6304	111.73	19.7289	111.73	20.2344	114.81	11.9217	111.73	14.2339				
111.89	11.8296	111.89	19.7652	111.89	12.7388	114.97	13.0508	111.89	20.2246				
112.06	17.9678	112.06	19.7871	112.06	28.1006	115.14	13.7757	112.06	12.0938				
112.22	10.8193	112.22	19.8528	112.22	10.2529	115.3	14.2506	112.22	16.1865				
112.38	12.6724	112.39	19.8528	112.38	12.6074	115.46	14.2506	112.38	8.02881				
112.55	17.9541	112.55	19.9117	112.55	25.5088	115.63	14.9371	112.55	16.0342				
112.71	21.585	112.71	20.0006	112.71	10.2534	115.79	13.6243	112.71	19.9453				
112.87	7.20825	112.88	20.0678	112.87	25.5488	115.95	12.3985	112.87	12.0132				
113.04	14.6484	113.04	20.1506	113.04	15.145	116.12	11.9217	113.04	30.0352				
113.2	19.9619	113.2	20.2799	113.2	17.7051	116.28	10.4193	113.2	17.9033				
113.37	14.4707	113.37	20.4186	113.37	20.3662	116.44	9.39338	113.37	18.1191				
113.53	23.834	113.53	20.5042	113.53	12.6392	116.61	8.55136	113.53	20.3564				
113.69	14.5811	113.69	20.5986	113.69	22.7705	116.77	7.60719	113.69	20.3379				
113.86	14.5654	113.86	20.7497	113.86	10.1924	116.94	6.52632	113.86	12.1226				
114.02	10.7803	114.02	20.903	114.02	7.65454	117.1	5.87686	114.02	28.4023				
114.18	25.3242	114.19	21.0751	114.18	12.6504	117.26	5.27674	114.18	18.3643				
114.35	12.7173	114.35	21.2166	114.35	27.7109	117.43	4.84392	114.35	16.1357				
114.51	16.1113	114.51	21.3684	114.51	22.5459	117.59	4.67943	114.51	23.9941				
114.67	17.875	114.68	21.583	114.67	5.0271	117.75	4.69715	114.67	8.01025				
114.84	16.1563	114.84	21.7489	114.84	22.8213	117.92	4.67943	114.84	14.0571				
115	18.082	115	21.9443	115	14.9458	118.08	4.75114	115	12.022				
115.17	21.6289	115.17	22.1889	115.17	15.0508	118.24	4.98008	115.17	33.998				
115.33	17.9785	115.33	22.3458	115.33	14.9595	118.41	5.34496	115.33	22.0332				
115.49	16.1494	115.49	22.6185	115.49	7.43774	118.57	5.74084	115.49	28.1318				
115.66	17.9619	115.66	22.8882	115.66	22.3564	118.74	6.26266	115.66	10.0449				
115.82	10.7627	115.82	23.0552	115.82	22.3896	118.9	6.52632	115.82	22.1436				
115.98	16.0732	115.99	23.2245	115.98	19.8916	119.06	6.66665	115.98	13.9077				
116.15	10.3916	116.15	23.3558	116.15	4.94824	119.23	7.08563	116.15	17.958				
116.31	16.292	116.31	23.6019	116.31	19.832	119.39	7.25135	116.31	25.7695				
116.47	19.7646	116.48	23.7689	116.47	7.50024	119.55	7.46973	116.47	15.9097				
116.64	12.5508	116.64	23.8428	116.64	14.9663	119.72	7.99975	116.64	29.8066				
116.8	18.001	116.8	23.949	116.8	7.48071	119.88	8.26637	116.8	11.833				
116.97	10.8594	116.97	24.0778	116.97	22.7891	120.04	8.79391	116.97	27.7666				
117.13	19.7246	117.13	24.2407	117.13	27.7559	120.21	9.91929	117.13	21.6465				
117.29	15.9585	117.29	24.197	117.29	17.3232	120.37	10.4193	117.29	25.5342				
117.46	8.86133	117.46	24.1861	117.46	14.5815	120.53	11.4803	117.46	21.6709				
117.62	17.9141	117.62	24.2407	117.62	14.5049	120.7	11.0704	117.62	17.6514				
117.78	16.0459	117.79	24.2735	117.78	19.4707	120.86	11.375	117.78	23.4277				
117.95	12.4185	117.95	24.3285	117.95	17.0547	121.03	12.9149	117.95	19.8301				
118.11	8.95117	118.11	24.3505	118.11	7.30396	121.19	12.5237	118.11	32.5742				
118.27	10.7783	118.28	24.4058	118.27	19.417	121.35	13.7757	118.27	14.1108				
118.44	10.7007	118.44	24.5171	118.44	32.0176	121.52	15.8943	118.44	29.7451				
118.6	14.1987	118.6	24.7657	118.6	29.3447	121.68	16.5298	118.6	15.6577				
118.77	14.3306	118.77	24.7657	118.77	26.8535	121.84	17.2183	118.77	15.6006				
118.93	8.9375	118.93	24.7315	118.93	24.3467	122.01	19.3698	118.93	21.0049				
119.09	19.3467	119.09	24.7315	119.09	37.4844	122.17	19.3698	119.09	23.1855				
119.26	5.26758	119.26	24.9265	119.26	35.248	122.33	17.7101	119.26	26.9355				
119.42	24.6572	119.42	25.1599	119.42	24.5449	122.5	17.7101	119.42	25.1934				
119.58	17.7334	119.59	25.2308	119.58	31.6953	122.66	17.4608	119.58	25.1191				
119.75	8.81641	119.75	25.3498	119.75	24.5625	122.83	18.2308	119.75	26.9795				
119.91	10.5059	119.91	25.5062	119.91	24.4844	122.99	20.322	119.91	17.3418				
120.07	10.5664	120.08	25.7014	120.07	12.1084	123.15	21.7474	120.07	21.5449				
120.24	21.1641	120.24	25.8622	120.24	34.0684	123.32	26.9449	120.24	17.6025				
120.4	10.5171	120.4	26.0376	120.4	27	123.48	29.5095	120.4	19.7314				
120.57	10.4883	120.57	26.2282	120.57	24.6143	123.64	27.5433	120.57	21.3916				
120.73	15.6606	120.73	26.539	120.73	24.2363	123.81	24.7904	120.73	13.7178				
120.89	21.3457	120.89	27.0194	120.89	26.6592	123.97	24.3046	120.89	11.5957				
121.06	17.7188	121.06	27.5174	121.06	10.0752	124.13	21.0105	121.06	20.5967				
121.22	17.4854	121.22	27.6733	121.22	17.6973	124.3	18.2308	121.22	15.2676				
121.38	10.3892	121.39	27.8021	121.38	12.4824	124.46	14.9371	121.38	23.0566				
121.55	7.06323	121.55	27.9177	121.55	27.4053	124.63	12.3985	121.55	11.3726				
121.71	14.1025	121.71	28.005	121.71	22.4453	124.79	10.1632	121.71	11.3569				
121.87	12.189	121.88	27.8309	121.87	12.3916	124.95	8.26637	121.87	20.7764				
122.04	14.3452	122.04	27.7304	122.04	9.88965	125.12	6.88884	122.04	26.5146				
122.2	1.8028	122.2	27.4752	122.2	22.3252	125.28	6.07849	122.2	27.0186				
122.36	12.5308	122.37	27.1696	122.36	22.5107	125.44	5.27674	122.36	17.2021				
122.53	10.7578	122.53	27.0738	122.53	12.5366	125.61	4.9208	122.53	19.6133				
122.69	12.647	122.69	26.9246	122.69	12.4214	125.77	4.50929	122.69	26.1621				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
122.86	12.625	122.86	26.6575	122.86	12.4951	125.93	4.26137	122.86	25.8799				
123.02	10.8374	123.02	26.3439	123.02	20.1318	126.1	4.17529	123.02	13.6416				
123.18	21.3027	123.18	25.8622	123.18	22.7686	126.26	4.17529	123.18	15.5376				
123.35	12.5049	123.35	25.2545	123.35	20.1484	126.43	4.33587	123.35	21.1973				
123.51	12.2988	123.51	24.562	123.51	17.4248	126.59	4.54232	123.51	17.2686				
123.67	9.01367	123.68	23.5296	123.67	20.1484	126.75	4.82508	123.67	27.1182				
123.84	14.1948	123.84	22.5521	123.84	15.1108	126.92	5.27674	123.84	17.3467				
124	19.5635	124	21.5397	124	24.8672	127.08	5.82169	124	27.1143				
124.16	14.3774	124.17	20.5434	124.16	9.91309	127.24	6.49215	124.16	30.9502				
124.33	9.03125	124.33	19.5566	124.33	4.99829	127.41	7.25135	124.33	13.4941				
124.49	14.4575	124.49	18.6603	124.49	9.92627	127.57	8.26637	124.49	17.3799				
124.66	12.6465	124.66	17.7541	124.66	9.89795	127.73	9.39338	124.66	21.9893				
124.82	10.9312	124.82	17.0176	124.82	17.2881	127.9	11.5876	124.82	13.9058				
124.98	7.25098	124.98	16.3797	124.98	12.4419	128.06	12.7818	124.98	17.8184				
125.15	8.99658	125.15	15.867	125.15	15.0815	128.23	14.7593	125.15	17.6533				
125.31	25.1523	125.31	15.207	125.31	10.0537	128.39	16.7531	125.31	11.9609				
125.47	7.17065	125.48	14.5602	125.47	10.0859	128.55	19.3698	125.47	22.0225				
125.64	14.2588	125.64	14.0833	125.64	7.6167	128.72	19.9943	125.64	17.9287				
125.8	17.8154	125.8	13.6504	125.8	32.6855	128.88	19.6771	125.8	25.6455				
125.96	23.25	125.97	13.2369	125.96	4.99561	129.04	20.322	125.96	23.8242				
126.13	9.00537	126.13	13.0094	126.13	19.8496	129.21	21.3726	126.13	29.0781				
126.29	16.0557	126.29	12.9717	126.29	14.8765	129.37	21.3726	126.29	7.69922				
126.46	21.5107	126.46	12.9561	126.46	14.9712	129.53	21.3726	126.46	17.2314				
126.62	28.8896	126.62	13.0062	126.62	34.752	129.7	21.0105	126.62	21.2285				
126.78	5.44287	126.78	13.1979	126.78	24.8594	129.86	22.5378	126.78	13.4131				
126.95	14.3696	126.95	13.422	126.95	9.99316	130.03	22.5378	126.95	23.585				
127.11	18.0088	127.11	13.6643	127.11	22.5566	130.19	22.5378	127.11	21.7666				
127.27	14.5269	127.28	13.9952	127.27	12.459	130.35	22.5378	127.27	19.7031				
127.44	23.6582	127.44	14.4041	127.44	37.4121	130.52	26.3719	127.44	15.7085				
127.6	7.18262	127.6	14.854	127.6	20.1211	130.68	29.5095	127.6	13.6235				
127.76	14.2861	127.77	15.3944	127.76	10.0776	130.84	32.6136	127.76	23.4775				
127.93	19.7109	127.93	16.0088	127.93	10.0259	131.01	31.7779	127.93	29.2314				
128.09	17.9082	128.09	16.7107	128.09	14.9805	131.17	31.7779	128.09	9.59912				
128.26	5.33838	128.26	17.5226	128.26	15.1396	131.33	36.4475	128.26	13.5044				
128.42	10.625	128.42	18.3984	128.42	22.4121	131.5	35.407	128.42	15.3901				
128.58	19.6309	128.58	19.3176	128.58	14.9053	131.66	33.4944	128.58	13.5381				
128.75	10.8325	128.75	20.2799	128.75	4.95972	131.83	29.5095	128.75	23.2305				
128.91	10.8242	128.91	21.1083	128.91	12.4082	131.99	26.3719	128.91	13.4897				
129.07	10.8511	129.08	21.9085	129.07	22.3721	132.15	20.322	129.07	20.9883				
129.24	9.02588	129.24	22.6758	129.24	19.752	132.32	15.4971	129.24	13.9199				
129.4	9.09863	129.4	23.4475	129.4	9.92139	132.48	13.4763	129.4	11.894				
129.56	5.42554	129.57	24.1535	129.56	12.5029	132.64	11.0704	129.56	13.8008				
129.73	12.5723	129.73	24.6521	129.73	15.1626	132.81	9.84059	129.73	19.7412				
129.89	10.7476	129.89	25.1835	129.89	17.6445	132.97	9.05062	129.89	17.8945				
130.06	10.7837	130.06	25.5062	130.06	17.5801	133.13	8.79391	130.06	13.9248				
130.22	7.11792	130.22	25.6523	130.22	17.7021	133.3	8.79391	130.22	17.7402				
130.38	8.88184	130.38	25.7014	130.38	15.0815	133.46	9.2532	130.38	19.709				
130.55	8.96338	130.55	25.3498	130.55	9.94775	133.62	9.32276	130.55	17.7598				
130.71	5.38232	130.71	24.915	130.71	12.292	133.79	9.53786	130.71	9.81396				
130.87	8.90283	130.88	24.4725	130.87	14.9136	133.95	9.11715	130.87	13.6802				
131.04	7.19189	131.04	23.8111	131.04	9.95361	134.12	9.11715	131.04	9.76904				
131.2	14.4292	131.2	23.1745	131.2	9.91602	134.28	8.85671	131.2	21.6084				
131.36	12.6772	131.37	22.4297	131.36	22.2148	134.44	8.37805	131.36	17.5557				
131.53	10.7759	131.53	21.7842	131.53	22.4512	134.61	7.99975	131.53	13.7886				
131.69	7.17969	131.69	21.1581	131.69	7.49683	134.77	7.79854	131.69	19.7998				
131.86	7.25708	131.86	20.5042	131.86	24.8896	134.93	7.60719	131.86	15.9927				
132.02	10.8086	132.02	19.7652	132.02	5.00244	135.1	7.12635	132.02	19.8564				
132.18	12.3813	132.18	18.9833	132.18	12.5488	135.26	6.77592	132.18	11.918				
132.35	10.5117	132.35	18.2052	132.35	10.0527	135.42	6.39177	132.35	17.8809				
132.51	8.77441	132.51	17.336	132.51	15.0298	135.59	5.87686	132.51	13.8457				
132.67	14.0332	132.68	16.4398	132.67	7.46802	135.75	5.41498	132.67	9.8374				
132.84	15.6821	132.84	15.4965	132.84	24.9531	135.92	4.82508	132.84	19.5049				
133	13.9224	133	14.5052	133	0	136.08	4.27607	133	13.6704				
133.16	19.2168	133.17	13.4489	133.16	12.3613	136.24	3.74645	133.16	13.7993				
133.33	7.14526	133.33	12.3772	133.33	22.0654	136.41	3.2463	133.33	15.6992				
133.49	7.23608	133.49	11.3069	133.49	27.249	136.57	2.87725	133.49	7.83911				
133.66	7.21973	133.66	10.335	133.66	14.832	136.73	2.536	133.66	7.84058				
133.82	19.8887	133.82	9.43335	133.82	24.7783	136.9	2.30504	133.82	7.91943				
133.98	12.7705	133.98	8.64155	133.98	29.6318	137.06	2.12349	133.98	15.8325				
134.15	5.41943	134.15	7.9535	134.15	20.2656	137.22	1.99376	134.15	19.8408				
134.31	7.15625	134.31	7.37503	134.31	22.7686	137.39	1.89332	134.31	21.6406				
134.47	16.1338	134.48	6.88645	134.47	12.5698	137.55	1.8264	134.47	19.9219				
134.64	21.3945	134.64	6.46402	134.64	7.51587	137.72	1.74666	134.64	13.9565				
134.8	23.1387	134.8	6.11397	134.8	7.52197	137.88	1.68039	134.8	27.5986				
134.96	16.0098	134.97	5.81622	134.96	14.9697	138.04	1.6296	134.96	11.8506				
135.13	28.5781	135.13	5.56795	135.13	9.86279	138.21	1.59195	135.13	23.6875				
135.29	21.5244	135.29	5.36774	135.29	7.38916	138.37	1.5521	135.29	15.7227				
135.46	16.0684	135.46	5.20049	135.46	14.9058	138.53	1.52163	135.46	27.4199				
135.62	19.6992	135.62	5.07477	135.62	19.9551	138.7	1.49774	135.62	27.2471				
135.78	14.2422	135.78	4.97425	135.78	24.6836	138.86	1.49054	135.78	25.6006				
135.95	12.4531	135.95	4.89452	135.95	17.3477	139.02	1.47459	135.95	7.86914				
136.11	15.8979	136.11	4.83203	136.11	17.3965	139.19	1.45898	136.11	25.6279				
136.27	7.07422	136.27	4.78045	136.27	17.5742	139.35	1.44538	136.27	27.8154				
136.44	10.623	136.44	4.74249	136.44	20.084	139.52	1.43867	136.44	8.01953				
136.6	19.3701	136.6	4.71172	136.6	12.4683	139.68	1.43368	136.6	15.9404				
136.76	15.6426	136.77	4.69525	136.76	15.1221	139.84	1.4173	136.76	21.624				
136.93	19.167	136.93	4.69115	136.93	10.0903	140.01	1.4173	136.93	9.75732				
137.09	26.2725	137.09	4.69936	137.09	14.9355	140.17	1.41085	137.09	25.3066				
137.25	15.7642	137.26	4.71007	137.25	4.94482	140.33	1.40446	137.25	15.4956				
137.42	18.8945	137.42	4.71834	137.42	19.9004	140.5	1.40128	137.42	23.085				
137.58	13.6621	137.58	4.71668	137.58	19.8252	140.66	1.40128	137.58	15.3384				
137.75	22.4531	137.75	4.70677	137.75	29.5381	140.82	1.3997	137.75	13.5449				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
137.91	13.9219	137.91	4.68053	137.91	22.1592	140.99	1.39812	137.91	15.4692				
138.07	23.1895	138.07	4.63772	138.07	29.6934	141.15	1.39655	138.07	7.68115				
138.24	13.9189	138.24	4.5894	138.24	44.918	141.32	1.39341	138.24	27.0049				
138.4	15.7192	138.4	4.53977	138.4	34.7344	141.48	1.39341	138.4	21.4424				
138.56	15.75	138.57	4.51006	138.56	25.0771	141.64	1.37946	138.56	15.563				
138.73	20.4873	138.73	4.48746	138.73	22.7734	141.81	1.37793	138.73	17.4287				
138.89	16.958	138.89	4.4755	138.89	30.2783	141.97	1.37487	138.89	19.3857				
139.05	30.6475	139.06	4.47774	139.05	22.4756	142.13	1.37335	139.05	9.76123				
139.22	22.3584	139.22	4.48222	139.22	29.8516	142.3	1.3688	139.22	25.3857				
139.38	25.7129	139.38	4.48372	139.38	24.8574	142.46	1.36279	139.38	13.5479				
139.55	39.5664	139.55	4.48222	139.55	24.6836	142.62	1.36579	139.55	19.3555				
139.71	48.1621	139.71	4.46955	139.71	27.1563	142.79	1.35682	139.71	23.167				
139.87	44.9805	139.87	4.45695	139.87	24.627	142.95	1.34797	139.87	19.3105				
140.04	29.4678	140.04	4.43927	140.04	22.4258	143.12	1.34797	140.04	15.3477				
140.2	52.6875	140.2	4.42101	140.2	19.8564	143.28	1.3378	140.2	9.57764				
140.36	41.7813	140.37	4.40363	140.36	29.7373	143.44	1.33205	140.36	17.3213				
140.53	43.6289	140.53	4.39283	140.53	34.5488	143.61	1.33492	140.53	28.958				
140.69	39.9102	140.69	4.38494	140.69	25.0508	143.77	1.32919	140.69	11.6069				
140.85	24.1572	140.86	4.38494	140.85	45.3379	143.93	1.32919	140.85	19.4072				
141.02	44.8848	141.02	4.38208	141.02	35.0332	144.1	1.33492	141.02	13.4878				
141.18	36.4316	141.18	4.37923	141.18	34.9824	144.26	1.32919	141.18	17.2637				
141.35	29.1758	141.35	4.37281	141.35	32.6563	144.42	1.33062	141.35	15.3042				
141.51	27.376	141.51	4.36004	141.51	35.1152	144.59	1.32635	141.51	13.2842				
141.67	15.397	141.67	4.33822	141.67	19.7852	144.75	1.32493	141.67	13.3276				
141.84	37.9629	141.84	4.31246	141.84	14.8633	144.92	1.32493	141.84	11.3462				
142	35.8145	142	4.28222	142	47.082	145.08	1.3151	142	18.8447				
142.16	38.0938	142.17	4.24904	142.16	34.6289	145.24	1.32635	142.16	13.2534				
142.33	47.625	142.33	4.21174	142.33	14.769	145.41	1.32919	142.33	17.1582				
142.49	24.4844	142.49	4.17315	142.49	39.293	145.57	1.33205	142.49	24.7197				
142.65	34.7695	142.66	4.13908	142.65	29.8721	145.73	1.3378	142.65	13.188				
142.82	38.084	142.82	4.10745	142.82	27.4209	145.9	1.33635	142.82	15.5454				
142.98	48.7559	142.98	4.09306	142.98	35.1738	146.06	1.34069	142.98	19.5332				
143.15	29.7178	143.15	4.06396	143.15	22.5723	146.22	1.34359	143.15	19.4893				
143.31	33.2676	143.31	4.05354	143.31	27.6875	146.39	1.34214	143.31	15.5708				
143.47	43.418	143.47	4.04866	143.47	42.7188	146.55	1.34069	143.47	15.562				
143.64	31.4893	143.64	4.05049	143.64	24.9365	146.71	1.34651	143.64	9.81299				
143.8	35.1348	143.8	4.06089	143.8	29.5439	146.88	1.34214	143.8	17.5068				
143.96	29.7578	143.97	4.0887	143.96	32.2559	147.04	1.34214	143.96	17.4531				
144.13	27.9434	144.13	4.10808	144.13	17.3896	147.21	1.3378	144.13	17.3037				
144.29	38.5566	144.29	4.15123	144.29	32.0293	147.37	1.34651	144.29	5.80322				
144.45	28.3457	144.46	4.20318	144.45	12.3511	147.53	1.34944	144.45	13.5122				
144.62	21.1855	144.62	4.26523	144.62	64.625	147.7	1.34944	144.62	22.9961				
144.78	33.418	144.78	4.32983	144.78	37.3027	147.86	1.35386	144.78	26.7441				
144.95	28.2344	144.95	4.39714	144.95	29.7119	148.02	1.36279	144.95	13.5581				
145.11	40.8652	145.11	4.46658	145.11	27.3955	148.19	1.36729	145.11	9.72119				
145.27	21.1953	145.27	4.53977	145.27	25.209	148.35	1.3688	145.27	13.6494				
145.44	26.4258	145.44	4.61383	145.44	27.6943	148.51	1.37335	145.44	15.5879				
145.6	22.8154	145.6	4.69115	145.6	25.0908	148.68	1.37793	145.6	9.76904				
145.76	21.0859	145.77	4.77196	145.76	32.4375	148.84	1.38718	145.76	11.7764				
145.93	38.3867	145.93	4.85035	145.93	45.0918	149.01	1.39029	145.93	19.415				
146.09	31.2568	146.09	4.91871	146.09	24.877	149.17	1.39341	146.09	19.2627				
146.25	27.918	146.26	4.98996	146.25	29.6758	149.33	1.39812	146.25	17.4648				
146.42	29.7344	146.42	5.04713	146.42	44.3926	149.5	1.40446	146.42	7.68701				
146.58	40.043	146.58	5.10466	146.58	27.1465	149.66	1.41245	146.58	17.2393				
146.75	22.8379	146.75	5.17944	146.75	32.2285	149.82	1.41892	146.75	13.4756				
146.91	24.8613	146.91	5.27294	146.91	17.21	149.99	1.42544	146.91	11.6069				
147.07	24.9248	147.07	5.40119	147.07	27.2051	150.15	1.43037	147.07	7.73438				
147.24	28.2461	147.24	5.55988	147.24	25.083	150.31	1.44034	147.24	13.5547				
147.4	17.7139	147.4	5.74779	147.4	17.6953	150.48	1.45215	147.4	15.5381				
147.56	29.8701	147.57	5.95675	147.56	42.7324	150.64	1.45556	147.56	9.77832				
147.73	27.7588	147.73	6.17438	147.73	30.1992	150.81	1.46761	147.73	16.7646				
147.89	23.3438	147.89	6.40699	147.89	40.0723	150.97	1.48164	147.89	12.7114				
148.05	36.543	148.06	6.64464	148.05	25.1055	151.13	1.47987	148.05	21.9512				
148.22	22.7139	148.22	6.87411	148.22	32.0918	151.3	1.47459	148.22	9.1665				
148.38	33.377	148.38	7.07315	148.38	19.6738	151.46	1.47987	148.38	16.2617				
148.55	19.2305	148.55	7.20014	148.55	34.7129	151.62	1.48875	148.55	10.5557				
148.71	20.8477	148.71	7.25261	148.71	29.8418	151.79	1.49414	148.71	20.9424				
148.87	28.1523	148.87	7.20689	148.87	22.2441	151.95	1.48341	148.87	17.5684				
149.04	30.1006	149.04	7.08061	149.04	51.8184	152.11	1.49774	149.04	20.9678				
149.2	21.0947	149.2	6.92014	149.2	14.9287	152.28	1.49054	149.2	22.5605				
149.36	24.5801	149.36	6.73288	149.36	32.332	152.44	1.50137	149.36	27.8291				
149.53	22.9912	149.53	6.53317	149.53	12.4761	152.61	1.50137	149.53	17.3838				
149.69	10.6582	149.69	6.33897	149.69	27.542	152.77	1.50684	149.69	32.8184				
149.85	26.3457	149.86	6.14614	149.85	32.707	152.93	1.50684	149.85	6.95142				
150.02	29.7793	150.02	5.96204	150.02	42.7188	153.1	1.51051	150.02	15.6211				
150.18	28.0557	150.18	5.78491	150.18	25.0049	153.26	1.50501	150.18	13.7808				
150.34	26.3457	150.35	5.63096	150.34	39.7422	153.42	1.51236	150.34	16.6006				
150.51	6.95679	150.51	5.50183	150.51	29.8096	153.59	1.51977	150.51	12.9614				
150.67	34.7012	150.67	5.3936	150.67	29.9395	153.75	1.5142	150.67	9.27588				
150.84	22.6348	150.84	5.30941	150.84	24.5723	153.91	1.52726	150.84	11.8252				
151	24.4961	151	5.24925	151	31.9648	154.08	1.52914	151	8.7002				
151.16	22.7891	151.16	5.2025	151.16	27.1416	154.24	1.52914	151.16	9.25391				
151.33	28.2012	151.33	5.16748	151.33	37.2656	154.41	1.52914	151.33	21.6377				
151.49	26.543	151.49	5.15262	151.49	24.6709	154.57	1.52914						
151.65	33.7578	151.66	5.1546	151.65	32.5195	154.73	1.53292						
151.82	26.5332	151.82	5.17644	151.82	38.082	154.9	1.54437						
151.98	22.8555	151.98	5.21259	151.98	32.7305	155.06	1.53482						
152.14	21.0195	152.15	5.25747	152.14	32.6934	155.22	1.55016						
152.31	19.293	152.31	5.31151	152.31	37.25	155.39	1.55016						
152.47	20.9434	152.47	5.3656	152.47	17.499	155.55	1.55795						
152.64	20.8525	152.64	5.42628	152.64	44.5449	155.71	1.556						
152.8	10.4634	152.8	5.49171	152.8	22.1211	155.88	1.56582						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
152.96	12.2944	152.96	5.55873	152.96	19.7061	156.04	1.56979						
153.13	22.5957	153.13	5.61918	153.13	19.8945	156.21	1.55991						
153.29	22.665	153.29	5.68336	153.29	39.7422	156.37	1.556						
153.45	19.335	153.46	5.74656	153.45	44.4219	156.53	1.55991						
153.62	26.5908	153.62	5.80867	153.62	19.8213	156.7	1.55991						
153.78	17.5703	153.78	5.86573	153.78	32.4004	156.86	1.5678						
153.94	15.8022	153.95	5.92131	153.94	35.3398	157.02	1.5521						
154.11	23.0039	154.11	5.96734	154.11	22.5967	157.19	1.54437						
154.27	24.7871	154.27	6.0087	154.27	42.5547	157.35	1.54823						
154.44	22.8057	154.44	6.04928	154.44	30.3955	157.51	1.54437						
154.6	22.6631	154.6	6.0918	154.6	25.0752	157.68	1.54054						
154.76	28.084	154.76	6.13211	154.76	9.94482	157.84	1.53292						
154.93	26.3086	154.93	6.16305	154.93	34.6543	158.01	1.53292						
155.09	22.5742	155.09	6.17296	155.09	37.3555	158.17	1.53292						
155.25	34.7266	155.26	6.1673	155.25	34.8203	158.33	1.52726						
155.42	13.8887	155.42	6.1574	155.42	14.8281	158.5	1.53292						
155.58	29.9102	155.58	6.13491	155.58	27.0234	158.66	1.52163						
155.74	29.8682	155.75	6.11954	155.74	14.9331	158.82	1.52726						
155.91	28.2334	155.91	6.10009	155.91	25.0225	158.99	1.52163						
156.07	23.001	156.07	6.07664	156.07	42.8594	159.15	1.52163						
156.24	14.2559	156.24	6.05201	156.24	37.8945	159.31	1.52163						
156.4	21.2031	156.4	6.02352	156.4	30.2832	159.48	1.5142						
156.56	24.4189	156.56	6.00199	156.56	30.4463	159.64	1.51977						
156.73	28.0498	156.73	5.97663	156.73	29.8877	159.8	1.5142						
156.89	20.9609	156.89	5.95675	156.89	19.7998	159.97	1.50501						
157.05	24.418	157.06	5.93832	157.05	34.6387	160.13	1.49594						
157.22	26.0156	157.22	5.93177	157.22	19.8613	160.3	1.50137						
157.38	17.834	157.38	5.92915	157.38	29.5742	160.46	1.49774						
157.54	31.5684	157.55	5.93177	157.54	42.1113	160.62	1.48164						
157.71	20.6172	157.71	5.9357	157.71	29.9111	160.79	1.46935						
157.87	15.3931	157.87	5.94489	157.87	14.9941	160.95	1.46761						
158.04	25.8643	158.04	5.96072	158.04	22.3984	161.11	1.46242						
158.2	19.1455	158.2	5.97796	158.2	29.7744	161.28	1.45898						
158.36	12.0654	158.36	5.99931	158.36	22.7139	161.44	1.44538						
158.53	36.2363	158.53	6.02352	158.53	20.125	161.6	1.44369						
158.69	26.0078	158.69	6.04928	158.69	27.5742	161.77	1.437						
158.85	8.67236	158.86	6.07115	158.85	32.5156	161.93	1.43037						
159.02	25.7773	159.02	6.10148	159.02	17.5723	162.1	1.42708						
159.18	13.6572	159.18	6.12512	159.18	22.4541	162.26	1.42054						
159.34	29.2549	159.35	6.14473	159.34	32.2754	162.42	1.42381						
159.51	28.1709	159.51	6.16305	159.51	34.5645	162.59	1.41406						
159.67	27.6299	159.67	6.18148	159.67	17.4014	162.75	1.41245						
159.84	10.1455	159.84	6.19431	159.84	32.3086	162.91	1.41406						
160	15.4346	160	6.20575	160	39.541	163.08	1.41245						
160.16	22.1318	160.16	6.22012	160.16	14.8203	163.24	1.41245						
160.33	17.0117	160.33	6.22588	160.33	20.0771	163.4	1.41245						
160.49	20.3096	160.49	6.23021	160.49	42.8926	163.57	1.4173						
160.65	18.7109	160.66	6.236	160.65	25.2617	163.73	1.42054						
160.82	32.2871	160.82	6.24469	160.82	22.4531	163.9	1.42054						
160.98	18.4648	160.98	6.26654	160.98	27.6992	164.06	1.41892						
161.14	23.4004	161.15	6.28706	161.14	27.5508	164.22	1.42054						
161.31	15.0811	161.31	6.32257	161.31	29.5713	164.39	1.42708						
161.47	16.8711	161.47	6.36601	161.47	24.46	164.55	1.43203						
161.64	21.0596	161.64	6.41923	161.64	12.4224	164.71	1.43368						
161.8	22.6162	161.8	6.49369	161.8	22.417	164.88	1.43867						
161.96	19.0303	161.96	6.57312	161.96	22.4121	165.04	1.44369						
162.13	11.9263	162.13	6.66276	162.13	29.7695	165.2	1.44369						
162.29	20.2383	162.29	6.74301	162.29	47.3398	165.37	1.45215						
162.45	16.8809	162.45	6.8183	162.45	32.5664	165.53	1.45385						
162.62	11.8887	162.62	6.88292	162.62	29.9873	165.7	1.45385						
162.78	22.0752	162.78	6.94159	162.78	32.6211	165.86	1.45556						
162.94	16.9639	162.95	6.99945	162.94	55.4883	166.02	1.45898						
163.11	21.8164	163.11	7.05829	163.11	22.6611	166.19	1.46242						
163.27	11.8154	163.27	7.10871	163.27	42.3926	166.35	1.46588						
163.43	20.2188	163.44	7.16653	163.43	27.3037	166.51	1.4607						
163.6	21.8066	163.6	7.21173	163.6	29.6357	166.68	1.46588						
163.76	31.2373	163.76	7.24869	163.76	29.8711	166.84	1.46588						
163.93	10.4014	163.93	7.2989	163.93	42.0488	167	1.46588						
164.09	25.5449	164.09	7.35685	164.09	41.8418	167.17	1.4607						
164.25	16.7529	164.25	7.40143	164.25	29.9209	167.33	1.45556						
164.42	18.4404	164.42	7.46	164.42	22.3281	167.5	1.45215						
164.58	11.897	164.58	7.53003	164.58	24.8086	167.66	1.45045						
164.74	17.1387	164.75	7.58208	164.74	29.8711	167.82	1.437						
164.91	15.2178	164.91	7.63703	164.91	22.7529	167.99	1.42381						
165.07	20.3555	165.07	7.68838	165.07	25.3857	168.15	1.42054						
165.23	16.8682	165.24	7.73597	165.23	32.6035	168.31	1.40764						
165.4	16.8584	165.4	7.76279	165.4	29.8877	168.48	1.40446						
165.56	20.0049	165.56	7.77852	165.56	29.8818	168.64	1.39029						
165.73	18.375	165.73	7.79206	165.73	32.2539	168.8	1.37335						
165.89	10.0815	165.89	7.79093	165.89	14.6699	168.97	1.36279						
166.05	12.1626	166.05	7.77627	166.05	42.043	169.13	1.3598						
166.22	20.1563	166.22	7.76728	166.22	34.8496	169.3	1.34797						
166.38	15.0259	166.38	7.76391	166.38	20	169.46	1.33492						
166.54	20.2383	166.55	7.76279	166.54	34.7793	169.62	1.32635						
166.71	27.1641	166.71	7.7729	166.71	29.7969	169.79	1.32919						
166.87	18.6006	166.87	7.78528	166.87	29.9766	169.95	1.3151						
167.03	21.8682	167.04	7.79771	167.03	32.6895	170.11	1.3151						
167.2	25.4316	167.2	7.81017	167.2	20.0459	170.28	1.31093						
167.36	10.1426	167.36	7.8045	167.36	24.8252	170.44	1.30267						
167.53	10.0254	167.53	7.81017	167.53	30.1162	170.6	1.30267						
167.69	23.3193	167.69	7.81585	167.69	27.3877	170.77	1.3013						
167.85	28.2178	167.85	7.81358	167.85	37.3203	170.93	1.29722						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
168.02	21.0537	168.02	7.81472	168.02	24.3701	171.1	1.30267						
168.18	26.3027	168.18	7.8204	168.18	19.9004	171.26	1.3013						
168.34	20.8828	168.35	7.81472	168.34	17.3936	171.42	1.30267						
168.51	25.9834	168.51	7.82838	168.51	19.7725	171.59	1.31093						
168.67	14.1045	168.67	7.84208	168.67	39.5527	171.75	1.3137						
168.83	15.8057	168.84	7.84781	168.83	37.2344	171.91	1.32352						
169	22.8438	169	7.86044	169	37.4648	172.08	1.32919						
169.16	14.106	169.16	7.86159	169.16	34.8242	172.24	1.33062						
169.33	8.7627	169.33	7.88697	169.33	47.6797	172.4	1.35238						
169.49	12.4204	169.49	7.89856	169.49	40.2227	172.57	1.35682						
169.65	17.21	169.65	7.91019	169.65	20.1113	172.73	1.37183						
169.82	28.0391	169.82	7.93823	169.82	47.1699	172.9	1.37793						
169.98	12.9541	169.98	7.95821	169.98	41.8574	173.06	1.39185						
170.14	19.0918	170.15	7.97356	170.14	27.126	173.22	1.40446						
170.31	21.0801	170.31	7.98778	170.31	31.8721	173.39	1.41245						
170.47	21.1914	170.47	8.00802	170.47	37.0293	173.55	1.43037						
170.63	27.6982	170.64	8.01877	170.63	29.7412	173.71	1.437						
170.8	23.3008	170.8	8.03195	170.8	42.3828	173.88	1.44034						
170.96	19.0215	170.96	8.04638	170.96	27.4922	174.04	1.44706						
171.13	21.4756	171.13	8.06087	171.13	47.2793	174.2	1.45045						
171.29	6.45386	171.29	8.08634	171.29	24.7988	174.37	1.45045						
171.45	10.6567	171.45	8.10341	171.45	42.832	174.53	1.44538						
171.62	19.2949	171.62	8.12669	171.62	20.1299	174.69	1.45215						
171.78	21.4102	171.78	8.14516	171.78	27.2559	174.86	1.45045						
171.94	19.293	171.95	8.16001	171.94	39.8828	175.02	1.45898						
172.11	10.5938	172.11	8.17241	172.11	42.2949	175.19	1.45898						
172.27	23.3613	172.27	8.1886	172.27	22.4697	175.35	1.45898						
172.43	14.8105	172.44	8.23503	172.43	36.6133	175.51	1.46242						
172.6	25.042	172.6	8.27433	172.6	34.5566	175.68	1.4607						
172.76	18.5693	172.76	8.31916	172.76	39.7695	175.84	1.47284						
172.93	16.4785	172.93	8.3463	172.93	24.877	176	1.48875						
173.09	22.7344	173.09	8.35148	173.09	27.0684	176.17	1.49774						
173.25	15.4771	173.25	8.32432	173.25	36.9277	176.33	1.50501						
173.42	6.43848	173.42	8.28709	173.42	22.4609	176.49	1.51236						
173.58	10.6787	173.58	8.24261	173.58	27.5186	176.66	1.51977						
173.74	27.9795	173.75	8.22243	173.74	37.4512	176.82	1.53672						
173.91	8.62305	173.91	8.19485	173.91	36.7598	176.99	1.5521						
174.07	21.1924	174.07	8.17988	174.07	32.5645	177.15	1.55795						
174.23	10.5317	174.24	8.14516	174.23	29.6328	177.31	1.57777						
174.4	24.8281	174.4	8.10219	174.4	24.1338	177.48	1.58382						
174.56	10.479	174.56	8.04157	174.56	31.5	177.64	1.60639						
174.73	22.7295	174.73	7.9783	174.73	27.0977	177.8	1.61897						
174.89	20.7041	174.89	7.91135	174.89	27.29	177.97	1.62533						
175.05	20.7529	175.05	7.87772	175.05	37.0918	178.13	1.64255						
175.22	21.0313	175.22	7.82724	175.22	12.3975	178.29	1.65571						
175.38	10.6323	175.38	7.7774	175.38	44.7793	178.46	1.67359						
175.54	25.6416	175.55	7.74601	175.54	24.9912	178.62	1.67812						
175.71	19.2432	175.71	7.71377	175.71	29.6807	178.79	1.68267						
175.87	12.877	175.87	7.69499	175.87	31.9375	178.95	1.69416						
176.03	10.7192	176.04	7.69719	176.03	17.1533	179.11	1.69185						
176.2	29.7656	176.2	7.69499	176.2	37.1055	179.28	1.6988						
176.36	19.2031	176.36	7.70713	176.36	31.5137	179.44	1.71288						
176.52	25.5303	176.53	7.72707	176.52	33.6055	179.6	1.72001						
176.69	21.1553	176.69	7.73932	176.69	29.0137	179.77	1.75159						
176.85	12.6162	176.85	7.75943	176.85	31.4766	179.93	1.75159						
177.02	16.9092	177.02	7.78303	177.02	36.5	180.09	1.78179						
177.18	16.8984	177.18	7.8011	177.18	14.4507	180.26	1.80513						
177.34	10.5493	177.34	7.82838	177.34	17.04	180.42	1.82909						
177.51	23.3389	177.51	7.82952	177.51	29.1797	180.59	1.85647						
177.67	15.0327	177.67	7.85125	177.67	41.1699	180.75	1.88468						
177.83	25.876	177.84	7.87541	177.83	19.416	180.91	1.90495						
178	14.9941	178	7.87772	178	28.3975	181.08	1.91673						
178.16	12.8828	178.16	7.88234	178.16	42.0879	181.24	1.92865						
178.32	21.2813	178.33	7.92418	178.32	34.2988	181.4	1.92865						
178.49	32.0352	178.49	7.96293	178.49	24.4199	181.57	1.94072						
178.65	14.7603	178.65	8.01279	178.65	26.8135	181.73	1.95295						
178.82	14.7354	178.82	8.06813	178.82	36.252	181.89	1.95912						
178.98	16.917	178.98	8.123	178.98	33.377	182.06	1.96533						
179.14	19.1406	179.14	8.18985	179.14	31.3945	182.22	1.97157						
179.31	21.1475	179.31	8.26161	179.31	17.0527	182.39	1.95912						
179.47	14.7759	179.47	8.3463	179.47	22.0254	182.55	1.94376						
179.63	23.4082	179.64	8.43009	179.63	34.0918	182.71	1.92267						
179.8	12.873	179.8	8.50749	179.8	26.8584	182.88	1.92267						
179.96	8.53516	179.96	8.54129	179.96	24.5684	183.04	1.90788						
180.12	23.4443	180.13	8.5508	180.12	24.4609	183.2	1.90495						
180.29	19.3105	180.29	8.53044	180.29	24.4795	183.37	1.91082						
180.45	23.6797	180.45	8.48331	180.45	24.376	183.53	1.91969						
180.62	10.6563	180.62	8.40109	180.62	27.0371	183.69	1.91082						
180.78	19.0684	180.78	8.28454	180.78	24.3926	183.86	1.90495						
180.94	21.2119	180.94	8.11932	180.94	26.7002	184.02	1.89043						
181.11	19.1309	181.11	7.90088	181.11	14.2969	184.19	1.85647						
181.27	8.40576	181.27	7.63378	181.27	33.9902	184.35	1.8157						
181.43	18.9541	181.44	7.34077	181.43	41.3789	184.51	1.75904						
181.6	8.40869	181.6	7.05458	181.6	24.1484	184.68	1.71763						
181.76	8.49902	181.76	6.78901	181.76	41.0566	184.84	1.67359						
181.92	23.4248	181.93	6.56188	181.92	24.376	185	1.6535						
182.09	12.8452	182.09	6.38112	182.09	14.6348	185.17	1.64473						
182.25	42.9102	182.25	6.24324	182.25	29.3926	185.33	1.67133						
182.42	25.8701	182.42	6.14614	182.42	39.4336	185.49	1.70347						
182.58	27.915	182.58	6.07664	182.58	19.623	185.66	1.7296						
182.74	25.3955	182.74	6.03298	182.74	29.5557	185.82	1.76405						
182.91	14.8486	182.91	6.02487	182.91	21.792	185.99	1.8104						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
183.07	19.043	183.07	6.06156	183.07	36.1719	186.15	1.83995						
183.23	25.3369	183.24	6.14473	183.23	33.5547	186.31	1.84817						
183.4	39.9766	183.4	6.25778	183.4	29.0508	186.48	1.87897						
183.56	21.1631	183.56	6.38264	183.56	19.4141	186.64	1.89332						
183.72	36.1992	183.73	6.51574	183.72	24.2695	186.8	1.91673						
183.89	21.124	183.89	6.64135	183.89	36.6641	186.97	1.95295						
184.05	19.1006	184.05	6.75148	184.05	36.5996	187.13	1.98419						
184.22	8.55518	184.22	6.83564	184.22	21.9814	187.29	1.98419						
184.38	19.3613	184.38	6.91836	184.38	16.9922	187.46	1.98419						
184.54	19.1406	184.54	7.00493	184.54	24.6826	187.62	1.97786						
184.71	10.6631	184.71	7.08061	184.71	27.0332	187.78	1.95295						
184.87	14.9429	184.87	7.16366	184.87	29.2773	187.95	1.93467						
185.03	23.5127	185.04	7.23601	185.03	9.67285	188.11	1.91082						
185.2	16.9189	185.2	7.29197	185.2	26.8945	188.28	1.90788						
185.36	16.8896	185.36	7.34077	185.36	36.3164	188.44	1.90495						
185.52	23.2334	185.53	7.35685	185.52	31.3887	188.6	1.90203						
185.69	21.165	185.69	7.34579	185.69	33.8262	188.77	1.89332						
185.85	14.7529	185.85	7.32776	185.85	29.2041	188.93	1.89621						
186.02	18.8447	186.02	7.28505	186.02	51.127	189.09	1.86765						
186.18	16.9385	186.18	7.25065	186.18	14.4761	189.26	1.84817						
186.34	10.7402	186.34	7.21463	186.34	31.5654	189.42	1.82371						
186.51	19.2363	186.51	7.17131	186.51	34.2734	189.58	1.77161						
186.67	14.9395	186.67	7.14367	186.67	12.3696	189.75	1.71763						
186.83	10.772	186.84	7.11624	186.83	17.2969	189.91	1.6513						
187	8.59473	187	7.10119	187	39.2539	190.08	1.58584						
187.16	12.728	187.16	7.10307	187.16	24.6191	190.24	1.52726						
187.32	25.3018	187.33	7.11435	187.32	14.6548	190.4	1.49594						
187.49	16.8604	187.49	7.13987	187.49	26.3643	190.57	1.4607						
187.65	12.7354	187.65	7.16844	187.65	19.2207	190.73	1.43368						
187.82	14.7559	187.82	7.204	187.82	21.9854	190.89	1.3997						
187.98	23.1689	187.98	7.23114	187.98	14.6226	191.06	1.37487						
188.14	18.959	188.14	7.24869	188.14	24.4395	191.22	1.34214						
188.31	12.8037	188.31	7.25261	188.31	19.3838	191.38	1.32352						
188.47	17.0293	188.47	7.23893	188.47	17.1709	191.55	1.29451						
188.63	21.2617	188.64	7.2156	188.63	24.5371	191.71	1.28113						
188.8	19.1934	188.8	7.18762	188.8	24.4346	191.88	1.27849						
188.96	19.3252	188.96	7.15413	188.96	17.1631	192.04	1.27586						
189.12	8.55908	189.13	7.12851	189.12	17.335	192.2	1.28912						
189.29	8.48242	189.29	7.09182	189.29	22.207	192.37	1.30267						
189.45	10.6606	189.45	7.05458	189.45	22.0098	192.53	1.31929						
189.61	19.1533	189.62	7.01407	189.61	33.8887	192.69	1.33062						
189.78	18.9629	189.78	6.97402	189.78	14.4985	192.86	1.34359						
189.94	23.2148	189.94	6.94877	189.94	19.5498	193.02	1.34797						
190.11	10.5059	190.11	6.93801	190.11	28.998	193.18	1.35682						
190.27	21.167	190.27	6.94339	190.27	24.0908	193.35	1.35386						
190.43	27.3916	190.43	6.95597	190.43	21.9365	193.51	1.35238						
190.6	14.7798	190.6	6.95237	190.6	36.5449	193.68	1.34944						
190.76	23.5693	190.76	6.95237	190.76	21.9492	193.84	1.35534						
190.92	17.2559	190.93	6.93622	190.92	24.501	194	1.35386						
191.09	19.2246	191.09	6.90414	191.09	22.2852	194.17	1.36279						
191.25	21.4219	191.25	6.85482	191.25	22.3252	194.33	1.37487						
191.41	6.41113	191.42	6.82349	191.41	29.5488	194.49	1.39029						
191.58	10.6475	191.58	6.80966	191.58	46.0586	194.66	1.39655						
191.74	0	191.74	6.81138	191.74	21.9961	194.82	1.42381						
191.91	10.4644	191.91	6.84435	191.91	43.6035	194.98	1.44369						
192.07	6.34717	192.07	6.89351	192.07	33.7891	195.15	1.46761						
192.23	29.7207	192.23	6.9398	192.23	24.1924	195.31	1.48697						
192.4	18.9922	192.4	6.98308	192.4	19.5273	195.48	1.52538						
192.56	14.7446	192.56	7.00128	192.56	36.7188	195.64	1.53672						
192.72	14.8833	192.73	6.99763	192.72	21.8838	195.8	1.56582						
192.89	17.1211	192.89	6.97946	192.89	26.7217	195.97	1.59811						
193.05	19.248	193.05	6.95957	193.05	41.7148	196.13	1.62108						
193.21	10.626	193.22	6.94339	193.21	19.7451	196.29	1.64473						
193.38	19.2627	193.38	6.93264	193.38	39.1563	196.46	1.68039						
193.54	19.4131	193.54	6.92371	193.54	24.5977	196.62	1.70113						
193.71	8.43799	193.71	6.93085	193.71	26.958	196.78	1.73687						
193.87	12.6289	193.87	6.93264	193.87	19.7012	196.95	1.75159						
194.03	10.5107	194.03	6.93443	194.03	36.3691	197.11	1.76908						
194.2	8.51025	194.2	6.92371	194.2	43.5156	197.28	1.77161						
194.36	10.561	194.36	6.90237	194.36	36.4805	197.44	1.79468						
194.52	10.5435	194.53	6.86007	194.52	16.957	197.6	1.81305						
194.69	21.1709	194.69	6.80448	194.69	28.9219	197.77	1.83722						
194.85	25.584	194.85	6.73456	194.85	16.8506	197.93	1.87047						
195.01	12.6831	195.02	6.64628	195.01	31.6777	198.09	1.89043						
195.18	23.0576	195.18	6.54271	195.18	21.9863	198.26	1.90495						
195.34	14.6787	195.34	6.42691	195.34	39.3125	198.42	1.94072						
195.51	23.1064	195.51	6.29738	195.51	36.668	198.58	1.96844						
195.67	16.7402	195.67	6.1673	195.67	19.7822	198.75	1.98419						
195.83	18.5908	195.83	6.04384	195.83	29.3604	198.91	1.99376						
196	20.5322	196	5.93308	196	33.9414	199.08	1.98102						
196.16	18.4844	196.16	5.83389	196.16	43.3613	199.24	1.99697						
196.32	32.9551	196.33	5.74165	196.32	29.0098	199.4	1.99376						
196.49	22.6855	196.49	5.65465	196.49	16.9814	199.57	2.00667						
196.65	18.6943	196.65	5.57026	196.65	9.6665	199.73	2.00992						
196.81	29.2813	196.82	5.49283	196.81	36.2891	199.89	2.04978						
196.98	26.8896	196.98	5.40662	196.98	33.9453	200.06	2.05318						
197.14	23.001	197.14	5.32625	197.14	24.4316	200.22	2.06686						
197.31	39.8789	197.31	5.2513	197.31	29.0391	200.38	2.06686						
197.47	33.6777	197.47	5.18143	197.47	29.2734	200.55	2.08774						
197.63	37.4199	197.63	5.1212	197.63	19.6563	200.71	2.09479						
197.8	35.2578	197.8	5.06807	197.8	12.2808	200.87	2.09479						
197.96	37.4531	197.96	5.02448	197.96	34.2148	201.04	2.09834						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
198.12	22.8994	198.13	4.98533	198.12	26.709	201.2	2.10904						
198.29	36.8887	198.29	4.95225	198.29	31.6016	201.37	2.09126						
198.45	37.1348	198.45	4.92051	198.45	21.8877	201.53	2.09479						
198.61	18.6377	198.62	4.89363	198.61	14.4688	201.69	2.08774						
198.78	41.6133	198.78	4.87233	198.78	21.6055	201.86	2.10546						
198.94	31.0967	198.94	4.85385	198.94	12.1079	202.02	2.10546						
199.11	24.6055	199.11	4.84423	199.11	38.6563	202.18	2.08774						
199.27	41.6934	199.27	4.84423	199.27	41.0469	202.35	2.10904						
199.43	36.0215	199.43	4.86	199.43	21.7881	202.51	2.10546						
199.6	35.7031	199.6	4.89452	199.6	36.8164	202.67	2.12713						
199.76	35.4551	199.76	4.9486	199.76	19.7217	202.84	2.09834						
199.92	31.5205	199.93	5.0226	199.92	26.8984	203	2.10904						
200.09	35.5527	200.09	5.10563	200.09	21.8848	203.17	2.11263						
200.25	32.9238	200.25	5.18343	200.25	12.2266	203.33	2.09479						
200.41	40.7031	200.42	5.238	200.41	21.8438	203.49	2.11263						
200.58	37.043	200.58	5.27605	200.58	21.5605	203.66	2.10546						
200.74	22.9824	200.74	5.29163	200.74	28.8809	203.82	2.10546						
200.91	18.5996	200.91	5.28955	200.91	24.2217	203.98	2.09126						
201.07	31.124	201.07	5.29894	201.07	26.749	204.15	2.08073						
201.23	27.0967	201.23	5.31781	201.23	41.0957	204.31	2.06						
201.4	35.5938	201.4	5.34107	201.4	19.3096	204.47	2.06						
201.56	14.6689	201.56	5.37311	201.56	26.7783	204.64	2.02634						
201.72	22.999	201.73	5.39468	201.72	36.7051	204.8	1.98419						
201.89	37.5977	201.89	5.40228	201.89	24.3984	204.97	1.95295						
202.05	33.6152	202.05	5.39252	202.05	29.2021	205.13	1.92267						
202.21	33.2734	202.22	5.38172	202.21	39.3906	205.29	1.92267						
202.38	32.9082	202.38	5.37311	202.38	17.0918	205.46	1.94072						
202.54	24.791	202.54	5.36667	202.54	31.5947	205.62	1.97157						
202.71	22.7305	202.71	5.36132	202.71	23.9775	205.78	2.0464						
202.87	10.3857	202.87	5.35704	202.87	21.1855	205.95	2.12349						
203.03	28.8838	203.03	5.34851	203.03	32.541	206.11	2.19878						
203.2	24.8359	203.2	5.33895	203.2	34.1563	206.27	2.23444						
203.36	29.0918	203.36	5.33047	203.36	38.1738	206.44	2.25475						
203.52	35.2891	203.52	5.32414	203.52	30.417	206.6	2.25475						
203.69	20.8633	203.69	5.32203	203.69	30.5254	206.77	2.26298						
203.85	27.4072	203.85	5.31781	203.85	32.6992	206.93	2.26712						
204.01	21.1084	204.02	5.31781	204.01	26.5781	207.09	2.26712						
204.18	18.8193	204.18	5.32414	204.18	30.8945	207.26	2.2965						
204.34	33.4609	204.34	5.33365	204.34	33.1055	207.42	2.28382						
204.5	28.8721	204.51	5.34319	204.5	36.4941	207.58	2.26712						
204.67	26.8271	204.67	5.34958	204.67	20.2637	207.75	2.30076						
204.83	20.5156	204.83	5.35491	204.83	16.2051	207.91	2.28382						
205	18.5381	205	5.36239	205	32.4258	208.07	2.28803						
205.16	16.6064	205.16	5.36989	205.16	24.2686	208.24	2.25066						
205.32	43.9375	205.32	5.37096	205.32	30.2383	208.4	2.22243						
205.49	26.9502	205.49	5.37741	205.49	30.5029	208.57	2.19878						
205.65	18.6602	205.65	5.38064	205.65	28.4707	208.73	2.1833						
205.81	35.5938	205.82	5.3828	205.81	20.1826	208.89	2.14925						
205.98	25.2314	205.98	5.38172	205.98	20.2471	209.06	2.12349						
206.14	35.5195	206.14	5.38172	206.14	24.6465	209.22	2.09479						
206.3	31.1318	206.31	5.38387	206.3	20.4814	209.38	2.08073						
206.47	21.0322	206.47	5.38603	206.47	28.6895	209.55	2.04978						
206.63	39.5547	206.63	5.37204	206.63	16.3223	209.71	2.01318						
206.8	43.2324	206.8	5.35277	206.8	18.4053	209.87	2.00667						
206.96	32.7383	206.96	5.33259	206.96	8.11377	210.04	2.00667						
207.12	22.8389	207.12	5.30941	207.12	26.2598	210.2	2.02634						
207.29	24.9346	207.29	5.28851	207.29	32.1602	210.37	2.04978						
207.45	33.0449	207.45	5.27501	207.45	18.2109	210.53	2.08774						
207.61	32.9199	207.62	5.27191	207.61	34.373	210.69	2.09126						
207.78	39.2891	207.78	5.27294	207.78	18.0615	210.86	2.09479						
207.94	50.4492	207.94	5.28123	207.94	34.334	211.02	2.11986						
208.1	52.334	208.11	5.29059	208.1	18.3174	211.18	2.09479						
208.27	20.9658	208.27	5.30626	208.27	32.8867	211.35	2.10904						
208.43	50.3809	208.43	5.32414	208.43	30.6875	211.51	2.09834						
208.6	31.7188	208.6	5.34319	208.6	38.8984	211.67	2.09834						
208.76	41.4414	208.76	5.36132	208.76	28.6914	211.84	2.06686						
208.92	39.2617	208.92	5.38172	208.92	28.5615	212	2.0464						
209.09	24.7344	209.09	5.40445	209.09	22.0938	212.17	1.99056						
209.25	41.5273	209.25	5.42957	209.25	32.1699	212.33	1.95912						
209.41	45.375	209.42	5.46379	209.41	26.2764	212.49	1.91969						
209.58	45.3633	209.58	5.51764	209.58	28.3779	212.66	1.91082						
209.74	29.0908	209.74	5.60161	209.74	18.166	212.82	1.89621						
209.9	18.7002	209.91	5.68937	209.9	32.1074	212.98	1.89043						
210.07	29.1836	210.07	5.77993	210.07	22.3516	213.15	1.86205						
210.23	33.2344	210.23	5.88114	210.23	28.4463	213.31	1.83995						
210.4	27.2109	210.4	5.98195	210.4	24.3008	213.47	1.83722						
210.56	29.3643	210.56	6.07939	210.56	18.2881	213.64	1.8264						
210.72	27.1895	210.72	6.16871	210.72	32.8105	213.8	1.83995						
210.89	24.8271	210.89	6.25632	210.89	28.7148	213.96	1.83995						
211.05	18.748	211.05	6.34496	211.05	22.4697	214.13	1.84542						
211.21	18.7324	211.22	6.4177	211.21	24.1963	214.29	1.85093						
211.38	10.333	211.38	6.47648	211.38	28.3994	214.46	1.85647						
211.54	14.4063	211.54	6.51416	211.54	26.3633	214.62	1.8733						
211.7	22.709	211.71	6.5284	211.7	26.0771	214.78	1.88182						
211.87	14.5161	211.87	6.53634	211.87	38.0664	214.95	1.88468						
212.03	16.4473	212.03	6.56349	212.03	30.1621	215.11	1.89043						
212.2	10.3369	212.2	6.61194	212.2	22.3018	215.27	1.89621						
212.36	12.5669	212.36	6.66937	212.36	20.1924	215.44	1.90788						
212.52	16.8271	212.52	6.72277	212.52	26.4209	215.6	1.92267						
212.69	8.35107	212.69	6.78387	212.69	22.5684	215.76	1.91673						
212.85	10.4712	212.85	6.83217	212.85	24.6582	215.93	1.90203						
213.01	6.25171	213.02	6.84609	213.01	38.6855	216.09	1.89043						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
213.18	16.6523	213.18	6.84261	213.18	20.2764	216.26	1.87897						
213.34	18.5488	213.34	6.83912	213.34	28.3262	216.42	1.86205						
213.5	10.2397	213.51	6.83912	213.5	24.2217	216.58	1.82371						
213.67	14.46	213.67	6.85482	213.67	30.0977	216.75	1.82103						
213.83	8.30762	213.83	6.86884	213.83	30.0947	216.91	1.81305						
214	8.25537	214	6.89705	214	44.5117	217.07	1.8104						
214.16	18.5381	214.16	6.90769	214.16	34.4277	217.24	1.80251						
214.32	16.5957	214.32	6.90591	214.32	42.4141	217.4	1.8104						
214.49	8.36719	214.49	6.89351	214.49	26.0527	217.56	1.80513						
214.65	20.8516	214.65	6.88292	214.65	34.6445	217.73	1.8264						
214.81	10.374	214.82	6.86358	214.81	47.1309	217.89	1.8264						
214.98	14.6318	214.98	6.84609	214.98	18.2949	218.06	1.8157						
215.14	8.43018	215.14	6.83738	215.14	30.5869	218.22	1.79209						
215.3	4.13477	215.31	6.83043	215.3	28.7393	218.38	1.75904						
215.47	12.4102	215.47	6.82176	215.47	34.6113	218.55	1.71763						
215.63	12.4385	215.63	6.79932	215.63	16.1133	218.71	1.68267						
215.8	12.4551	215.8	6.76849	215.8	38.2305	218.87	1.66908						
215.96	2.05408	215.96	6.72277	215.96	52.3789	219.04	1.64692						
216.12	14.3545	216.12	6.67766	216.12	46.3867	219.2	1.64473						
216.29	6.16675	216.29	6.63643	216.29	43.9297	219.36	1.64473						
216.45	4.15942	216.45	6.58924	216.45	32.082	219.53	1.6535						
216.61	12.4448	216.61	6.55068	216.61	28.4014	219.69	1.65571						
216.78	8.33838	216.78	6.5189	216.78	34.7344	219.86	1.65571						
216.94	20.9951	216.94	6.49369	216.94	36.6836	220.02	1.64692						
217.1	4.19922	217.11	6.49056	217.1	48.918	220.18	1.6339						
217.27	12.5317	217.27	6.49684	217.27	35.0391	220.35	1.62533						
217.43	8.24316	217.43	6.51732	217.43	30.626	220.51	1.60639						
217.59	14.4785	217.6	6.5459	217.59	36.3984	220.67	1.60017						
217.76	12.3999	217.76	6.57956	217.76	33.7559	220.84	1.594						
217.92	8.22266	217.92	6.61356	217.92	28.2197	221	1.594						
218.09	10.2627	218.09	6.64957	218.09	30.3066	221.16	1.60017						
218.25	12.4497	218.25	6.6893	218.25	34.0918	221.33	1.61475						
218.41	12.4404	218.41	6.73288	218.41	61.9414	221.49	1.63822						
218.58	10.3267	218.58	6.7873	218.58	32.4492	221.66	1.64473						
218.74	6.21606	218.74	6.84086	218.74	36.4785	221.82	1.6535						
218.9	6.26733	218.91	6.89351	218.9	36.3262	221.98	1.66237						
219.07	12.5571	219.07	6.94339	219.07	34.4063	222.15	1.64473						
219.23	8.32764	219.23	7.00493	219.23	28.5645	222.31	1.6513						
219.39	18.7676	219.4	7.06943	219.39	30.6758	222.47	1.6513						
219.56	4.15796	219.56	7.13229	219.56	36.4629	222.64	1.6535						
219.72	12.5356	219.72	7.17898	219.72	24.1367	222.8	1.66014						
219.89	4.11011	219.89	7.18666	219.89	44.293	222.96	1.66908						
220.05	12.377	220.05	7.16844	220.05	26.2197	223.13	1.68039						
220.21	8.22803	220.21	7.14272	220.21	29.8457	223.29	1.69416						
220.38	6.19897	220.38	7.10871	220.38	41.8945	223.46	1.69416						
220.54	16.4297	220.54	7.07129	220.54	34.1836	223.62	1.70347						
220.7	4.09473	220.71	7.04349	220.7	32.1563	223.78	1.70816						
220.87	8.29883	220.87	7.02324	220.87	22.123	223.95	1.7224						
221.03	2.10034	221.03	7.00128	221.03	34.3027	224.11	1.71763						
221.19	8.33594	221.2	6.97221	221.19	42.9102	224.27	1.7296						
221.36	6.27246	221.36	6.94518	221.36	20.4238	224.44	1.7296						
221.52	12.5801	221.52	6.91302	221.52	38.7422	224.6	1.74666						
221.69	10.4097	221.69	6.90059	221.69	38.2715	224.76	1.75407						
221.85	16.5371	221.85	6.88998	221.85	30.3652	224.93	1.74912						
222.01	10.2163	222.01	6.88645	222.01	38.1211	225.09	1.76405						
222.18	10.3115	222.18	6.89351	222.18	30.0781	225.26	1.78179						
222.34	8.28125	222.34	6.92014	222.34	22.0908	225.42	1.77414						
222.5	12.3506	222.51	6.95597	222.5	32.4004	225.58	1.78179						
222.67	6.15747	222.67	7.00128	222.67	36.4004	225.75	1.79989						
222.83	2.06738	222.83	7.05829	222.83	44.3574	225.91	1.80251						
222.99	12.4448	223	7.11059	222.99	46.2402	226.07	1.82103						
223.16	8.31201	223.16	7.13703	223.16	50.8457	226.24	1.82909						
223.32	8.28906	223.32	7.12095	223.32	36.666	226.4	1.83995						
223.49	6.23706	223.49	7.08995	223.49	40.2715	226.56	1.85093						
223.65	8.42139	223.65	7.05644	223.65	42.5703	226.73	1.85093						
223.81	8.28809	223.81	7.0159	223.81	24.332	226.89	1.86765						
223.98	12.4214	223.98	6.99217	223.98	52.9414	227.05	1.87047						
224.14	12.3691	224.14	6.98308	224.14	48.4199	227.22	1.86205						
224.3	8.2915	224.31	6.9704	224.3	28.2607	227.38	1.86205						
224.47	10.2739	224.47	6.94518	224.47	36.2598	227.55	1.8733						
224.63	14.3374	224.63	6.90946	224.63	22.2451	227.71	1.85647						
224.79	8.19189	224.8	6.86007	224.79	36.0664	227.87	1.83722						
224.96	14.4463	224.96	6.81657	224.96	48.168	228.04	1.8345						
225.12	4.11865	225.12	6.7702	225.12	28.5293	228.2	1.84542						
225.29	12.458	225.29	6.73625	225.29	34.6992	228.36	1.86765						
225.45	2.09387	225.45	6.70767	225.45	38.6621	228.53	1.88468						
225.61	12.5635	225.61	6.68264	225.61	32.4336	228.69	1.90788						
225.78	4.19531	225.78	6.65286	225.78	26.584	228.85	1.92267						
225.94	6.20728	225.94	6.62661	225.94	46.7988	229.02	1.90788						
226.1	10.3457	226.11	6.59247	226.1	38.5156	229.18	1.88468						
226.27	4.12695	226.27	6.55868	226.27	43.9707	229.35	1.88468						
226.43	8.19971	226.43	6.52682	226.43	40.3809	229.51	1.88182						
226.59	6.15332	226.6	6.49056	226.59	50.4336	229.67	1.8733						
226.76	4.12061	226.76	6.4547	226.76	38.3672	229.84	1.87897						
226.92	6.22021	226.92	6.41617	226.92	46.2969	230	1.88468						
227.09	8.21045	227.09	6.36902	227.09	58.5996	230.16	1.89043						
227.25	8.25195	227.25	6.31811	227.25	42.8223	230.33	1.89332						
227.41	8.25488	227.41	6.27093	227.41	32.1758	230.49	1.89332						
227.58	20.96	227.58	6.22733	227.58	38.2578	230.65	1.89621						
227.74	6.21582	227.74	6.20003	227.74	48.8457	230.82	1.89332						
227.9	10.3965	227.91	6.18718	227.9	36.4629	230.98	1.89332						
228.07	8.33496	228.07	6.18291	228.07	52.4199	231.15	1.88468						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
228.23	18.7637	228.23	6.19145	228.23	36.5625	231.31	1.88182						
228.39	18.5547	228.4	6.1986	228.39	50.3516	231.47	1.86765						
228.56	12.3516	228.56	6.21006	228.56	38.6055	231.64	1.84542						
228.72	10.2773	228.72	6.21868	228.72	48.2578	231.8	1.84817						
228.89	12.3853	228.89	6.23455	228.89	38.0117	231.96	1.82909						
229.05	16.3887	229.05	6.26508	229.05	34.4355	232.13	1.82371						
229.21	14.2778	229.21	6.29443	229.21	34.2539	232.29	1.82371						
229.38	10.3013	229.38	6.33001	229.38	30.3115	232.45	1.82103						
229.54	12.4829	229.54	6.37204	229.54	56.8438	232.62	1.79468						
229.7	6.25537	229.7	6.41923	229.7	45.1914	232.78	1.7895						
229.87	8.31006	229.87	6.46402	229.87	34.5527	232.95	1.76908						
230.03	10.4883	230.03	6.50627	230.03	42.248	233.11	1.75159						
230.19	12.5498	230.2	6.53634	230.19	36.2754	233.27	1.73687						
230.36	14.4644	230.36	6.54271	230.36	38.7891	233.44	1.71288						
230.52	10.2358	230.52	6.53953	230.52	30.1738	233.6	1.71052						
230.68	8.21777	230.69	6.53793	230.68	35.9805	233.76	1.68955						
230.85	10.3481	230.85	6.55228	230.85	44.332	233.93	1.68039						
231.01	16.4199	231.01	6.58601	231.01	34.4219	234.09	1.65571						
231.18	20.3145	231.18	6.63807	231.18	30.3398	234.25	1.6535						
231.34	11.8081	231.34	6.6943	231.34	24.416	234.42	1.6535						
231.5	13.7227	231.5	6.72109	231.5	40.3848	234.58	1.64255						
231.67	13.6255	231.67	6.72613	231.67	16.3027	234.75	1.62533						
231.83	15.623	231.83	6.70767	231.83	14.4629	234.91	1.61475						
231.99	3.91772	232	6.67269	231.99	28.2861	235.07	1.594						
232.16	7.88721	232.16	6.63643	232.16	54.4902	235.24	1.5678						
232.32	13.7383	232.32	6.61356	232.32	51.1504	235.4	1.54054						
232.48	9.7207	232.49	6.59895	232.48	38.541	235.56	1.52538						
232.65	15.4941	232.65	6.59895	232.65	35.709	235.73	1.51977						
232.81	7.75879	232.81	6.58601	232.81	37.3809	235.89	1.50684						
232.98	9.62744	232.98	6.57634	232.98	53.7344	236.05	1.50137						
233.14	15.2583	233.14	6.56509	233.14	43.4453	236.22	1.51051						
233.3	9.61914	233.3	6.56028	233.3	33.5391	236.38	1.50501						
233.47	3.85754	233.47	6.56188	233.47	41.3457	236.55	1.5142						
233.63	7.57983	233.63	6.57151	233.63	31.9336	236.71	1.5142						
233.79	9.06982	233.8	6.59085	233.79	41.7207	236.87	1.52914						
233.96	12.6724	233.96	6.61356	233.96	43.9141	237.04	1.54245						
234.12	10.6694	234.12	6.65946	234.12	31.6367	237.2	1.54823						
234.28	3.19666	234.29	6.70767	234.28	33.9961	237.36	1.556						
234.45	14.2075	234.45	6.76849	234.45	28.042	237.53	1.55016						
234.61	11.7168	234.61	6.81311	234.61	27.8975	237.69	1.556						
234.78	10.9556	234.78	6.85832	234.78	35.4707	237.85	1.5521						
234.94	13.6313	234.94	6.8706	234.94	33.5762	238.02	1.54437						
235.1	8.11865	235.1	6.85832	235.1	43.6621	238.18	1.54823						
235.27	9.53906	235.27	6.83738	235.27	37.5293	238.35	1.5521						
235.43	2.72925	235.43	6.80966	235.43	29.6924	238.51	1.55016						
235.59	11.2529	235.6	6.77874	235.59	41.873	238.67	1.54823						
235.76	10.1855	235.76	-999	235.76	44	238.84	1.54054						
235.92	5.43091	235.92	-999	235.92	35.7734	239	1.52726						
236.08	7.35645	236.09	-999	236.08	23.8369	239.16	1.51977						
236.25	15.79	236.25	-999	236.25	29.8555	239.33	1.51791						
				236.41	33.8184	239.49	1.49774						
				236.58	39.8184	239.65	1.48697						
				236.74	33.875	239.82	1.48164						
				236.9	17.8711	239.98	1.46935						
				237.07	23.7959	240.15	1.45215						
				237.23	25.6729	240.31	1.43867						
				237.39	29.4189	240.47	1.43867						
				237.56	31.8193	240.64	1.43368						
				237.72	21.7979	240.8	1.43037						
				237.88	23.7451	240.96	1.437						
				238.05	25.8232	241.13	1.44706						
				238.21	26.1426	241.29	1.45385						
				238.38	25.9912	241.45	1.46761						
				238.54	29.8271	241.62	1.47284						
				238.7	27.7422	241.78	1.48875						
				238.87	19.96	241.94	1.51051						
				239.03	9.89307	242.11	1.52914						
				239.19	25.5684	242.27	1.556						
				239.36	21.6992	242.44	1.55991						
				239.52	25.8135	242.6	1.58584						
				239.68	17.8906	242.76	1.59195						
				239.85	17.7939	242.93	1.60223						
				240.01	29.7666	243.09	1.61475						
				240.18	31.8672	243.25	1.61056						
				240.34	21.9697	243.42	1.61475						
				240.5	27.7959	243.58	1.61897						
				240.67	31.7432	243.74	1.62533						
				240.83	17.9658	243.91	1.62747						
				240.99	20.0371	244.07	1.62747						
				241.16	13.8057	244.24	1.6296						
				241.32	35.4258	244.4	1.62747						
				241.48	27.6855	244.56	1.62108						
				241.65	29.708	244.73	1.61897						
				241.81	23.623	244.89	1.59811						
				241.98	21.6045	245.05	1.59195						
				242.14	35.8242	245.22	1.56979						
				242.3	24.0039	245.38	1.56582						
				242.47	29.9355	245.54	1.56582						
				242.63	31.9063	245.71	1.55991						
				242.79	24.0527	245.87	1.5521						
				242.96	23.9658	246.04	1.55016						
				243.12	49.5	246.2	1.54823						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				243.28	25.499	246.36	1.55016						
				243.45	23.6982	246.53	1.56188						
				243.61	13.8862	246.69	1.5678						
				243.77	13.8208	246.85	1.56979						
				243.94	15.7861	247.02	1.5818						
				244.1	29.7949	247.18	1.58991						
				244.27	23.918	247.34	1.5818						
				244.43	25.7822	247.51	1.57577						
				244.59	27.7754	247.67	1.57577						
				244.76	15.9648	247.84	1.56979						
				244.92	28.1025	248	1.57777						
				245.08	19.8545	248.16	1.59195						
				245.25	21.8516	248.33	1.60847						
				245.41	25.6973	248.49	1.61686						
				245.57	15.8872	248.65	1.61897						
				245.74	25.5811	248.82	1.63605						
				245.9	27.4561	248.98	1.64692						
				246.07	25.7285	249.14	1.6513						
				246.23	37.6035	249.31	1.6535						
				246.39	19.7207	249.47	1.66237						
				246.56	33.8262	249.64	1.67133						
				246.72	20.0488	249.8	1.67133						
				246.88	15.9932	249.96	1.66014						
				247.05	19.9961	250.13	1.64692						
				247.21	35.5488	250.29	1.63605						
				247.37	19.8955	250.45	1.63605						
				247.54	33.4863	250.62	1.66014						
				247.7	27.4697	250.78	1.68039						
				247.87	23.5059	250.94	1.71763						
				248.03	23.793	251.11	1.74666						
				248.19	19.791	251.27	1.77923						
				248.36	23.7227	251.44	1.78435						
				248.52	17.7676	251.6	1.78435						
				248.68	33.8262	251.76	1.79209						
				248.85	27.9531	251.93	1.80251						
				249.01	21.8799	252.09	1.8157						
				249.17	23.9873	252.25	1.8345						
				249.34	27.9824	252.42	1.85925						
				249.5	17.9658	252.58	1.86765						
				249.67	33.416	252.74	1.88182						
				249.83	15.7407	252.91	1.90495						
				249.99	17.7295	253.07	1.90203						
				250.16	23.7266	253.24	1.90495						
				250.32	33.2949	253.4	1.91673						
				250.48	17.6934	253.56	1.89332						
				250.65	21.877	253.73	1.88468						
				250.81	16.0205	253.89	1.89043						
				250.97	21.9092	254.05	1.90495						
				251.14	35.8887	254.22	1.90788						
				251.3	34.0801	254.38	1.92267						
				251.47	9.98193	254.54	1.95912						
				251.63	15.7783	254.71	1.97157						
				251.79	29.2246	254.87	1.97157						
				251.96	29.7207	255.03	1.99056						
				252.12	27.5928	255.2	2.00019						
				252.28	25.5938	255.36	2.00992						
				252.45	19.6211	255.53	2.01318						
				252.61	21.834	255.69	2.02303						
				252.77	27.7754	255.85	2.02303						
				252.94	21.7939	256.02	2.03632						
				253.1	17.8008	256.18	2.03967						
				253.27	11.981	256.34	2.06686						
				253.43	20.0693	256.51	2.06						
				253.59	15.9077	256.67	2.06686						
				253.76	9.86133	256.83	2.10546						
				253.92	13.8438	257	2.09834						
				254.08	17.7832	257.16	2.10546						
				254.25	19.5518	257.33	2.12349						
				254.41	17.5957	257.49	2.15298						
				254.57	19.6426	257.65	2.15298						
				254.74	15.8438	257.82	2.18715						
				254.9	27.6064	257.98	2.19489						
				255.07	13.9023	258.14	2.23042						
				255.23	22.042	258.31	2.22243						
				255.39	12.0396	258.47	2.22243						
				255.56	13.9585	258.63	2.23444						
				255.72	13.8408	258.8	2.26712						
				255.88	11.8364	258.96	2.25066						
				256.05	21.6787	259.13	2.26712						
				256.21	13.7485	259.29	2.23444						
				256.37	23.5537	259.45	2.21449						
				256.54	13.8711	259.62	2.1833						
				256.7	15.7954	259.78	2.14925						
				256.86	9.85352	259.94	2.15298						
				257.03	15.7256	260.11	2.13445						
				257.19	17.9277	260.27	2.16803						
				257.36	23.8848	260.43	2.16425						
				257.52	9.95313	260.6	2.17946						
				257.68	11.8887	260.76	2.20269						
				257.85	12.001	260.93	2.22243						
				258.01	15.8247	261.09	2.23847						
				258.17	21.6123	261.25	2.20661						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				258.34	17.6445	261.42	2.19489						
				258.5	17.7031	261.58	2.13813						
				258.66	17.7031	261.74	2.09126						
				258.83	13.7285	261.91	2.03632						
				258.99	17.6787	262.07	1.96844						
				259.16	5.97949	262.23	1.92267						
				259.32	8.00342	262.4	1.90495						
				259.48	19.8281	262.56	1.8733						
				259.65	21.9688	262.73	1.84817						
				259.81	11.9121	262.89	1.82103						
				259.97	13.8955	263.05	1.80513						
				260.14	13.7134	263.22	1.8104						
				260.3	17.5479	263.38	1.80513						
				260.46	21.6582	263.54	1.8157						
				260.63	31.5986	263.71	1.84542						
				260.79	9.79395	263.87	1.87047						
				260.96	17.6934	264.03	1.92865						
				261.12	11.8237	264.2	1.97786						
				261.28	9.93457	264.36	2.06						
				261.45	13.8882	264.53	2.13813						
				261.61	13.8638	264.69	2.22243						
				261.77	6.00391	264.85	2.3223						
				261.94	21.877	265.02	2.43158						
				262.1	11.8477	265.18	2.50021						
				262.26	9.78174	265.34	2.55166						
				262.43	13.8096	265.51	2.55166						
				262.59	7.854	265.67	2.55692						
				262.76	3.91016	265.83	2.51543						
				262.92	9.76074	266	2.5412						
				263.08	13.7813	266.16	2.55692						
				263.25	13.8818	266.33	2.55692						
				263.41	7.92847	266.49	2.62178						
				263.57	11.9028	266.65	2.61625						
				263.74	8.01563	266.82	2.55692						
				263.9	8.00342	266.98	2.53083						
				264.06	3.94019	267.14	2.48021						
				264.23	11.7856	267.31	2.47526						
				264.39	7.83862	267.47	2.47033						
				264.56	5.90137	267.63	2.49017						
				264.72	5.87524	267.8	2.52054						
				264.88	9.82764	267.96	2.5412						
				265.05	3.94958	268.12	2.5412						
				265.21	9.91016	268.29	2.59436						
				265.37	21.6162	268.45	2.5412						
				265.54	23.7158	268.62	2.53083						
				265.7	25.8516	268.78	2.44597						
				265.86	19.9688	268.94	2.39403						
				266.03	19.8867	269.11	2.31364						
				266.19	25.6807	269.27	2.24658						
				266.36	15.8711	269.43	2.19489						
				266.52	15.8628	269.6	2.13445						
				266.68	9.82861	269.76	2.07725						
				266.85	21.5205	269.92	2.0464						
				267.01	21.6289	270.09	2.00667						
				267.17	25.5479	270.25	1.97786						
				267.34	21.6377	270.42	1.97786						
				267.5	25.6484	270.58	1.97157						
				267.66	10.0176	270.74	1.97157						
				267.83	30.1094	270.91	1.95603						
				267.99	25.8984	271.07	1.93467						
				268.16	11.894	271.23	1.92865						
				268.32	27.6924	271.4	1.93467						
				268.48	13.8252	271.56	1.94072						
				268.65	11.75	271.72	1.94681						
				268.81	25.4385	271.89	1.98419						
				268.97	27.6982	272.05	1.99697						
				269.14	11.8848	272.22	1.99376						
				269.3	21.6338	272.38	2.00992						
				269.46	27.5732	272.54	2.00667						
				269.63	23.8262	272.71	2.00667						
				269.79	15.9907	272.87	1.99376						
				269.96	29.7207	273.03	1.99376						
				270.12	19.9131	273.2	1.95912						
				270.28	25.876	273.36	1.94072						
				270.45	25.9756	273.52	1.91673						
				270.61	33.3574	273.69	1.91969						
				270.77	21.5576	273.85	1.89621						
				270.94	37.5547	274.02	1.89043						
				271.1	27.5586	274.18	1.8733						
				271.26	25.5186	274.34	1.85925						
				271.43	19.6025	274.51	1.84542						
				271.59	15.8643	274.67	1.8345						
				271.75	32.0098	274.83	1.8264						
				271.92	17.9805	275	1.82371						
				272.08	9.94043	275.16	1.8157						
				272.25	24.1621	275.32	1.80251						
				272.41	31.7715	275.49	1.81305						
				272.57	21.6855	275.65	1.78435						
				272.74	21.5391	275.82	1.79989						
				272.9	17.7949	275.98	1.78179						
				273.06	11.8418	276.14	1.79989						
				273.23	13.8218	276.31	1.79209						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				273.39	15.7729	276.47	1.79468						
				273.55	17.8154	276.63	1.79989						
				273.72	17.9014	276.8	1.82371						
				273.88	17.8486	276.96	1.82103						
				274.05	13.8862	277.12	1.83995						
				274.21	15.9053	277.29	1.86205						
				274.37	11.9614	277.45	1.89332						
				274.54	17.7061	277.62	1.90788						
				274.7	19.6846	277.78	1.94376						
				274.86	23.6426	277.94	1.99697						
				275.03	21.8154	278.11	2.03632						
				275.19	13.7607	278.27	2.08774						
				275.35	5.88477	278.43	2.11263						
				275.52	15.8237	278.6	2.15298						
				275.68	3.96191	278.76	2.13813						
				275.85	15.8105	278.92	2.11263						
				276.01	13.9019	279.09	2.10904						
				276.17	3.99377	279.25	2.07377						
				276.34	19.998	279.42	2.0464						
				276.5	29.9072	279.58	2.0464						
				276.66	7.8562	279.74	2.02634						
				276.83	9.81934	279.91	2.01318						
				276.99	17.6113	280.07	2.01318						
				277.15	15.7505	280.23	2.02634						
				277.32	23.6104	280.4	2.03298						
				277.48	13.9077	280.56	2.0464						
				277.65	21.8203	280.72	2.06686						
				277.81	9.89111	280.89	2.08774						
				277.97	13.8032	281.05	2.12713						
				278.14	13.9766	281.21	2.15672						
				278.3	11.9248	281.38	2.22243						
				278.46	19.8125	281.54	2.27962						
				278.63	19.8457	281.71	2.31364						
				278.79	21.7383	281.87	2.32666						
				278.95	17.71	282.03	2.33542						
				279.12	5.84717	282.2	2.32666						
				279.28	15.7461	282.36	2.27962						
				279.45	3.95215	282.52	2.25066						
				279.61	17.8164	282.69	2.19489						
				279.77	15.708	282.85	2.13813						
				279.94	7.88647	283.01	2.10904						
				280.1	13.9341	283.18	2.08073						
				280.26	6.04102	283.34	2.05318						
				280.43	7.96899	283.51	2.00667						
				280.59	11.9131	283.67	1.99376						
				280.75	13.9531	283.83	1.96844						
				280.92	15.7725	284	1.93165						
				281.08	9.69482	284.16	1.91969						
				281.25	17.4844	284.32	1.89621						
				281.41	15.7871	284.49	1.87897						
				281.57	7.90942	284.65	1.8733						
				281.74	15.8286	284.81	1.87047						
				281.9	23.5576	284.98	1.88182						
				282.06	19.8809	285.14	1.8733						
				282.23	13.9341	285.31	1.88468						
				282.39	5.93677	285.47	1.92267						
				282.55	21.7314	285.63	1.94681						
				282.72	29.8916	285.8	1.97786						
				282.88	17.8789	285.96	2.00992						
				283.05	7.8772	286.12	2.0464						
				283.21	9.73145	286.29	2.06342						
				283.37	5.90991	286.45	2.09126						
				283.54	17.8369	286.61	2.11986						
				283.7	7.82861	286.78	2.15298						
				283.86	21.6211	286.94	2.15298						
				284.03	5.9292	287.11	2.17946						
				284.19	7.93799	287.27	2.19878						
				284.35	13.8633	287.43	2.17183						
				284.52	7.96948	287.6	2.16425						
				284.68	11.9443	287.76	2.12349						
				284.84	17.9629	287.92	2.09834						
				285.01	21.6787	288.09	2.05318						
				285.17	9.7876	288.25	2.03632						
				285.34	17.4277	288.41	2.02303						
				285.5	9.80811	288.58	2.00667						
				285.66	17.6943	288.74	1.97786						
				285.83	17.7256	288.91	1.96533						
				285.99	9.92627	289.07	1.93165						
				286.15	9.87549	289.23	1.92267						
				286.32	11.5107	289.4	1.90788						
				286.48	11.4941	289.56	1.90495						
				286.64	5.79321	289.72	1.88468						
				286.81	11.5625	289.89	1.8733						
				286.97	15.3618	290.05	1.8733						
				287.14	15.3008	290.21	1.85647						
				287.3	11.4893	290.38	1.85093						
				287.46	19.0234	290.54	1.82371						
				287.63	19.0352	290.71	1.79209						
				287.79	13.291	290.87	1.75904						
				287.95	24.9541	291.03	1.71288						
				288.12	34.4609	291.2	1.64255						
				288.28	22.8496	291.36	1.54823						

MWQ-2					MWQ-20					MWQ-20			M117MW001			M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)
					288.44	26.7813	291.52	1.45385									
					288.61	11.5884	291.69	1.381									
					288.77	17.4678	291.85	1.32635									
					288.94	23.1025	292.01	1.29047									
					289.1	15.3999	292.18	1.26287									
					289.26	21.1309	292.34	1.2514									
					289.43	11.4761	292.51	1.23766									
					289.59	13.188	292.67	1.21821									
					289.75	34.2559	292.83	1.20285									
					289.92	15.083	293	1.1913									
					290.08	15.7793	293.16	1.18221									
					290.24	12.1597	293.32	1.18221									
					290.41	13.9165	293.49	1.18334									
					290.57	22.6953	293.65	1.18901									
					290.74	20.6797	293.81	1.1982									
					290.9	20.5156	293.98	1.20636									
					291.06	13.6187	294.14	1.21702									
					291.23	22.2754	294.31	1.23152									
					291.39	18.4629	294.47	1.24762									
					291.55	12.707	294.63	1.25267									
					291.72	18.7383	294.8	1.25267									
					291.88	12.6411	294.96	1.25267									
					292.04	23.6465	295.12	1.25267									
					292.21	23.5254	295.29	1.2514									
					292.37	28.79	295.45	1.24888									
					292.54	20.1641	295.61	1.24888									
					292.7	32.6172	295.78	1.24637									
					292.86	32.0918											
					293.03	33.498											
					293.19	29.9385											
					293.35	27.0488											
					293.52	28.6484											
					293.68	31.5342											
					293.84	30.3037											
					294.01	33.7578											
					294.17	26.0762											
					294.34	20.2598											
					294.5	40.6641											
					294.66	27.8379											
					294.83	24.4463											
					294.99	32.8145											
					295.15	21.9297											
					295.32	31.1641											
					295.48	31.5547											
					295.64	34.2441											
					295.81	30.5098											
					295.97	30.8369											
					296.14	39.0977											
					296.3	27.4932											
					296.46	25.9287											
					296.63	29.8926											
					296.79	25.8516											

APPENDIX E

Chemical Analytical Reports

(Laboratory Analytical Reports)

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NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 02/11/2013

GCAL Report 211050426

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose AFB Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050426

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C (Dissolved and Total) analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument. The dilutions are reflected in elevated detection limits.

In the SW-846 6010C analysis for prep batch 455675, the MS/MSD and post-digestion spike recoveries recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 455676, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Barium was detected at a concentration > ½ the PQL in the method blank. The concentration is less than 1/10 the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium and Sodium on ICP6, 05/25/11 at 1921. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456691, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium on ICP6, 05/27/11 at 1406 and for Sodium on ICP6, 05/31/11 at 1254. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1505. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456692, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 456846, the MS recovery is outside the control limits for Sodium. The MSD and LCS recoveries are acceptable. A post-digestion spike was performed on the QC

sample for this batch with a recovery of 110%. The MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Thallium on ICP6, 05/31/11 at 1448. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1637. Only one schedule can be reported on a form 3 for a method blank. Manganese is flagged E, estimated on the serial dilution due to the fact that the % difference between the original result and the serial dilution result is greater than 10.

In the SW-846 6010C analysis for prep batch 456848, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Beryllium and Thallium on ICP6, 05/31/11 at 1555. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1758. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 7470A analysis for prep batch 457095, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010C analysis, the recovery for the low level check standard (CRDL) is outside 80-120% for Zinc (79%). This is associated with sample 21105190401 (MWL6). This sample was analyzed twice. The method blank concentration exceeded ½ PQL and was greater than 10% of the concentration detected in the sample in the first run. All other batch and instrument QC was acceptable. The only issue in the second run was the low recovery for the CRDL standard. The sample result for Zinc is comparable in both runs with a slightly higher result in the second run. The client was contacted and allowed the data to be reported with the CRDL exceedance.

In the SW-846 6010C analysis, Thallium was detected at a concentration greater than the LOD in one CCB (ICP6, 05/10/11, 1130). Thallium was not detected in the associated samples.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (ICP6, 05/24/11; 1431, 1608, 1732) is greater than the LOD but less than the PQL. The concentrations are less than 1/10 the concentration detected in the associated samples. Some samples required reanalysis.

CONVENTIONALS

In the EPA 300.0 analysis, all samples except 21105042622 (EB2 had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 300.0 analysis for analytical batch 456395, the MS/MSD was analyzed on sample 21105042615 (MWQ-18) rather than sample 21105042616 (MWQ14) as requested on the COC.

In the EPA 353.2 analysis, samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), 21105042606 (MWQ-7), 21105042607 (MWQ-10), 21105042608 (MWQ-10-MS), 21105042609 (MWQ-10-MSD), 21105042613 (MWQ21), 21105042616 (MWQ14), 21105042617 (MWQ14 MS), and 21105042618 (MWQ14 MSD) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SW-846 9012A analysis for prep batch 455725, the MS/MSD recoveries are outside the control limits for Total Cyanide. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 9012A analysis for analytical batch 456904, the MSD recovery is outside the control limits

for Total Cyanide. The MSD and LCS recoveries are acceptable.

Sample 21105042601 (MWQ-3) was received after expiration of the 24-hour holding time for Chromium VI. Samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), and 21105042606 (MWQ-7) were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. The client was contacted and authorized the laboratory to proceed with the analysis.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105042607 (MWQ-10) and 21105042613 (MWQ21) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

Sample 21105042615 (MWQ-18) was filtered and preserved at the laboratory for dissolved metals.

See the sub-contract lab report narrative for the Perchlorate analysis.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211050426

THIS REPORT CONTAINS 217 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20
21105042619	MWQ14-DUP	Water	05/13/2011 12:31	05/14/2011 09:20
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.738	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	68.3	5.00	1.05	mg/L
14808-79-8	Sulfate	150	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.70J	60.0	4.03	ug/L
7440-38-2	Arsenic	13.5	10.0	2.53	ug/L
7440-39-3	Barium	31.1	10.0	0.11	ug/L
7440-43-9	Cadmium	0.44J	5.00	0.20	ug/L
7440-70-2	Calcium	30200	100	50.0	ug/L
7440-47-3	Chromium	1.65J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.65J	10.0	1.00	ug/L
7440-50-8	Copper	10.4	10.0	1.37	ug/L
7439-95-4	Magnesium	33100	100	50.0	ug/L
7439-98-7	Molybdenum	3.84J	50.0	3.75	ug/L
7440-09-7	Potassium	6210	500	100	ug/L
7440-23-5	Sodium	81700	1000	200	ug/L
7440-62-2	Vanadium	104	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	15.9	10.0	2.53	ug/L
7440-39-3	Barium	27.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.83J	5.00	0.20	ug/L
7440-70-2	Calcium	29600	100	50.0	ug/L
7440-47-3	Chromium	1.15J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.15J	10.0	1.00	ug/L
7440-50-8	Copper	10.8	10.0	1.37	ug/L
7439-92-1	Lead	6.40J	15.0	1.39	ug/L
7439-95-4	Magnesium	32300	100	50.0	ug/L
7439-98-7	Molybdenum	4.54J	50.0	3.75	ug/L
7440-09-7	Potassium	6210	500	100	ug/L
7440-23-5	Sodium	80300	1000	200	ug/L
7440-62-2	Vanadium	100	20.0	3.75	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	430	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	145	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	17.6	1.00	0.210	mg/L
14808-79-8	Sulfate	59.0	2.00	0.790	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.43	0.050	0.013	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	11.0	10.0	2.53	ug/L
7440-39-3	Barium	50.4	10.0	0.11	ug/L
7440-43-9	Cadmium	0.36B	5.00	0.20	ug/L
7440-70-2	Calcium	42300	100	50.0	ug/L
7440-50-8	Copper	11.8	10.0	1.37	ug/L
7439-92-1	Lead	2.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	19400	100	50.0	ug/L
7440-09-7	Potassium	3310	500	100	ug/L
7440-23-5	Sodium	55900	1000	200	ug/L
7440-62-2	Vanadium	79.8	20.0	3.75	ug/L
7440-66-6	Zinc	7.24B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.07B	60.0	4.03	ug/L
7440-38-2	Arsenic	10.5	10.0	2.53	ug/L
7440-39-3	Barium	46.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.94B	5.00	0.20	ug/L
7440-70-2	Calcium	42300	100	50.0	ug/L
7440-50-8	Copper	9.83B	10.0	1.37	ug/L
7439-92-1	Lead	2.61B	15.0	1.39	ug/L
7439-95-4	Magnesium	19200	100	50.0	ug/L
7440-09-7	Potassium	3310	500	100	ug/L
7440-23-5	Sodium	56400	1000	200	ug/L
7440-62-2	Vanadium	78.8	20.0	3.75	ug/L
7440-66-6	Zinc	7.38B	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	177	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	300	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.8	2.00	0.420	mg/L
14808-79-8	Sulfate	90.8	4.00	1.58	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.53	0.100	0.026	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.74B	60.0	4.03	ug/L
7440-38-2	Arsenic	7.43B	10.0	2.53	ug/L
7440-39-3	Barium	30.3	10.0	0.11	ug/L
7440-43-9	Cadmium	1.10B	5.00	0.20	ug/L
7440-70-2	Calcium	40800	100	50.0	ug/L
7440-50-8	Copper	8.59B	10.0	1.37	ug/L
7439-95-4	Magnesium	21600	100	50.0	ug/L
7440-09-7	Potassium	3240	500	100	ug/L
7440-23-5	Sodium	63600	1000	200	ug/L
7440-62-2	Vanadium	80.8	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	9.27B	10.0	2.53	ug/L
7440-39-3	Barium	35.6	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.76B	5.00	0.20	ug/L
7440-70-2	Calcium	42500	100	50.0	ug/L
7440-47-3	Chromium	1.48B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.48B	10.0	1.00	ug/L
7440-50-8	Copper	9.64B	10.0	1.37	ug/L
7439-95-4	Magnesium	23100	100	50.0	ug/L
7440-09-7	Potassium	3260	500	100	ug/L
7440-23-5	Sodium	65200	1000	200	ug/L
7440-62-2	Vanadium	84.3	20.0	3.75	ug/L
7440-66-6	Zinc	2.88B	20.0	2.72	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	374	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	175	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.19	0.100	0.026	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.5	2.00	0.420	mg/L
14808-79-8	Sulfate	91.5	4.00	1.58	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	8.16B	10.0	2.53	ug/L
7440-39-3	Barium	31.1	10.0	0.11	ug/L
7440-43-9	Cadmium	0.96B	5.00	0.20	ug/L
7440-70-2	Calcium	42000	100	50.0	ug/L
7440-50-8	Copper	8.54B	10.0	1.37	ug/L
7439-92-1	Lead	5.28B	15.0	1.39	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	22300	100	50.0	ug/L
7440-09-7	Potassium	3180	500	100	ug/L
7440-23-5	Sodium	64800	1000	200	ug/L
7440-62-2	Vanadium	83.7	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.82B	10.0	2.53	ug/L
7440-39-3	Barium	34.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.78B	5.00	0.20	ug/L
7440-70-2	Calcium	41600	100	50.0	ug/L
7440-47-3	Chromium	1.35B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.35B	10.0	1.00	ug/L
7440-50-8	Copper	10.5	10.0	1.37	ug/L
7439-92-1	Lead	4.06B	15.0	1.39	ug/L
7439-95-4	Magnesium	22000	100	50.0	ug/L
7439-96-5	Manganese	2.01B	15.0	2.00	ug/L
7440-09-7	Potassium	3130	500	100	ug/L
7440-23-5	Sodium	64000	1000	200	ug/L
7440-62-2	Vanadium	81.5	20.0	3.75	ug/L
7440-66-6	Zinc	2.77B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	170	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	380	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.39	0.050	0.013	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.4	2.00	0.420	mg/L
14808-79-8	Sulfate	85.5	4.00	1.58	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	10.2	10.0	2.53	ug/L
7440-39-3	Barium	38.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.72B	5.00	0.20	ug/L
7440-70-2	Calcium	40800	100	50.0	ug/L
7440-47-3	Chromium	1.42B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.42B	10.0	1.00	ug/L
7440-50-8	Copper	7.09B	10.0	1.37	ug/L
7439-95-4	Magnesium	19700	100	50.0	ug/L
7440-09-7	Potassium	2120	500	100	ug/L
7440-23-5	Sodium	57900	1000	200	ug/L
7440-62-2	Vanadium	77.7	20.0	3.75	ug/L
7440-66-6	Zinc	7.87B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.16B	10.0	2.53	ug/L
7440-39-3	Barium	34.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.96B	5.00	0.20	ug/L
7440-70-2	Calcium	40600	100	50.0	ug/L
7440-50-8	Copper	7.23B	10.0	1.37	ug/L
7439-92-1	Lead	2.42B	15.0	1.39	ug/L
7439-95-4	Magnesium	19300	100	50.0	ug/L
7440-09-7	Potassium	2610	500	100	ug/L
7440-23-5	Sodium	57900	1000	200	ug/L
7440-62-2	Vanadium	78.4	20.0	3.75	ug/L
7440-66-6	Zinc	5.61B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	160	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	352	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.31	0.020	0.005	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	59.3	5.00	1.05	mg/L
14808-79-8	Sulfate	156	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.80B	10.0	2.53	ug/L
7440-39-3	Barium	33.7	10.0	0.11	ug/L
7440-43-9	Cadmium	0.87B	5.00	0.20	ug/L
7440-70-2	Calcium	57600	100	50.0	ug/L
7440-50-8	Copper	8.93B	10.0	1.37	ug/L
7439-92-1	Lead	4.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	24500	100	50.0	ug/L
7440-09-7	Potassium	2690	500	100	ug/L
7440-23-5	Sodium	72000	1000	200	ug/L
7440-62-2	Vanadium	76.8	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.98B	60.0	4.03	ug/L
7440-38-2	Arsenic	8.35B	10.0	2.53	ug/L
7440-39-3	Barium	29.5	10.0	0.11	ug/L
7440-43-9	Cadmium	1.35B	5.00	0.20	ug/L
7440-70-2	Calcium	57200	100	50.0	ug/L
7440-47-3	Chromium	1.34B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.34B	10.0	1.00	ug/L
7440-50-8	Copper	8.81B	10.0	1.37	ug/L
7439-92-1	Lead	3.40B	15.0	1.39	ug/L
7439-95-4	Magnesium	24600	100	50.0	ug/L
7440-09-7	Potassium	2650	500	100	ug/L
7782-49-2	Selenium	6.12B	40.0	4.34	ug/L
7440-23-5	Sodium	72700	1000	200	ug/L
7440-62-2	Vanadium	74.4	20.0	3.75	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	480	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	7.07	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	29.3	2.00	0.420	mg/L
14808-79-8	Sulfate	60.6	4.00	1.58	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09210B	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	8.34B	10.0	2.53	ug/L
7440-39-3	Barium	124	10.0	0.11	ug/L
7440-43-9	Cadmium	0.73B	5.00	0.20	ug/L
7440-70-2	Calcium	53600	100	50.0	ug/L
7440-50-8	Copper	12.3	10.0	1.37	ug/L
7439-92-1	Lead	1.54B	15.0	1.39	ug/L
7439-95-4	Magnesium	40400	100	50.0	ug/L
7439-98-7	Molybdenum	3.77B	50.0	3.75	ug/L
7440-09-7	Potassium	5950	500	100	ug/L
7440-23-5	Sodium	21100	1000	200	ug/L
7440-62-2	Vanadium	68.8	20.0	3.75	ug/L
7440-66-6	Zinc	3.30B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.83B	10.0	2.53	ug/L
7440-39-3	Barium	123	10.0	0.11	ug/L
7440-43-9	Cadmium	0.86B	5.00	0.20	ug/L
7440-70-2	Calcium	54300	100	50.0	ug/L
7440-47-3	Chromium	1.07B	10.0	1.00	ug/L
7440-50-8	Copper	12.2	10.0	1.37	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	2.43B	15.0	1.39	ug/L
7439-95-4	Magnesium	40500	100	50.0	ug/L
7439-98-7	Molybdenum	4.87B	50.0	3.75	ug/L
7440-09-7	Potassium	6090	500	100	ug/L
7440-23-5	Sodium	21500	1000	200	ug/L
7440-62-2	Vanadium	69.8	20.0	3.75	ug/L
7440-66-6	Zinc	4.86B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	216	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	5.00B	10.0	2.80	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	390	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0375	0.0050	0.0006	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.65	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4940	200	60.0	ug/L
7440-36-0	Antimony	511	60.0	4.03	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	536	10.0	2.53	ug/L
7440-39-3	Barium	630	10.0	0.11	ug/L
7440-41-7	Beryllium	508	5.00	0.11	ug/L
7440-43-9	Cadmium	504	5.00	0.20	ug/L
7440-70-2	Calcium	60000	100	50.0	ug/L
7440-47-3	Chromium	499	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	495	10.0	1.37	ug/L
7439-89-6	Iron	5040	100	40.0	ug/L
7439-92-1	Lead	505	15.0	1.39	ug/L
7439-95-4	Magnesium	47300	100	50.0	ug/L
7439-96-5	Manganese	504	15.0	2.00	ug/L
7439-98-7	Molybdenum	514	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	510	40.0	4.34	ug/L
7440-22-4	Silver	501	10.0	0.60	ug/L
7440-23-5	Sodium	41300	1000	200	ug/L
7440-28-0	Thallium	519	20.0	1.75	ug/L
7440-32-6	Titanium	498	100	1.20	ug/L
7440-62-2	Vanadium	571	20.0	3.75	ug/L
7440-66-6	Zinc	500	20.0	2.72	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.58	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4670	200	60.0	ug/L
7440-36-0	Antimony	501	60.0	4.03	ug/L
7440-38-2	Arsenic	522	10.0	2.53	ug/L
7440-39-3	Barium	596	10.0	0.11	ug/L
7440-41-7	Beryllium	487	5.00	0.11	ug/L
7440-43-9	Cadmium	480	5.00	0.20	ug/L
7440-70-2	Calcium	57100	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	459	10.0	1.00	ug/L
7440-50-8	Copper	468	10.0	1.37	ug/L
7439-89-6	Iron	4690	100	40.0	ug/L
7439-92-1	Lead	495	15.0	1.39	ug/L
7439-95-4	Magnesium	43300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	497	50.0	3.75	ug/L
7440-02-0	Nickel	444	40.0	0.96	ug/L
7440-09-7	Potassium	15100	500	100	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	505	40.0	4.34	ug/L
7440-22-4	Silver	481	10.0	0.60	ug/L
7440-23-5	Sodium	39100	1000	200	ug/L
7440-28-0	Thallium	493	20.0	1.75	ug/L
7440-32-6	Titanium	475	100	1.20	ug/L
7440-62-2	Vanadium	545	20.0	3.75	ug/L
7440-66-6	Zinc	480	20.0	2.72	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	535	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.468	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.6	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	78.1	2.00	0.420	mg/L
14808-79-8	Sulfate	161	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0376	0.0050	0.0006	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4830	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	538	10.0	2.53	ug/L
7440-39-3	Barium	620	10.0	0.11	ug/L
7440-41-7	Beryllium	503	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	60600	100	50.0	ug/L
7440-47-3	Chromium	486	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	484	10.0	1.37	ug/L
7439-89-6	Iron	4890	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	47000	100	50.0	ug/L
7439-96-5	Manganese	495	15.0	2.00	ug/L
7439-98-7	Molybdenum	506	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	519	40.0	4.34	ug/L
7440-22-4	Silver	496	10.0	0.60	ug/L
7440-23-5	Sodium	41100	1000	200	ug/L
7440-28-0	Thallium	503	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	495	20.0	2.72	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.29	0.20	0.081	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.30	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4870	200	60.0	ug/L
7440-36-0	Antimony	523	60.0	4.03	ug/L
7440-38-2	Arsenic	544	10.0	2.53	ug/L
7440-39-3	Barium	626	10.0	0.11	ug/L
7440-41-7	Beryllium	504	5.00	0.11	ug/L
7440-43-9	Cadmium	499	5.00	0.20	ug/L
7440-70-2	Calcium	59400	100	50.0	ug/L
7440-47-3	Chromium	496	10.0	1.00	ug/L
7440-48-4	Cobalt	479	10.0	1.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	Copper	490	10.0	1.37	ug/L
7439-89-6	Iron	4940	100	40.0	ug/L
7439-92-1	Lead	513	15.0	1.39	ug/L
7439-95-4	Magnesium	46200	100	50.0	ug/L
7439-96-5	Manganese	500	15.0	2.00	ug/L
7439-98-7	Molybdenum	524	50.0	3.75	ug/L
7440-02-0	Nickel	463	40.0	0.96	ug/L
7440-09-7	Potassium	16200	500	100	ug/L
7782-49-2	Selenium	527	40.0	4.34	ug/L
7440-22-4	Silver	499	10.0	0.60	ug/L
7440-23-5	Sodium	41800	1000	200	ug/L
7440-28-0	Thallium	524	20.0	1.75	ug/L
7440-32-6	Titanium	497	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	531	20.0	2.72	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	80.9	2.00	0.420	mg/L
14808-79-8	Sulfate	160	4.00	1.58	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	531	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.470	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	388	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	220	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.244	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3310	100	21.0	mg/L
14808-79-8	Sulfate	1350	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.00B	10.0	2.53	ug/L
7440-39-3	Barium	28.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.49B	5.00	0.20	ug/L
7440-70-2	Calcium	204000	100	50.0	ug/L
7440-47-3	Chromium	2.25B	10.0	1.00	ug/L
7440-50-8	Copper	22.2	10.0	1.37	ug/L
7439-95-4	Magnesium	135000	100	50.0	ug/L
7439-96-5	Manganese	50.1	15.0	2.00	ug/L
7439-98-7	Molybdenum	22.6B	50.0	3.75	ug/L
7440-02-0	Nickel	1.89B	40.0	0.96	ug/L
7440-09-7	Potassium	12600	500	100	ug/L
7440-62-2	Vanadium	71.6	20.0	3.75	ug/L
7440-66-6	Zinc	426	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	187000	100	50.0	ug/L
7440-47-3	Chromium	2.53B	10.0	1.00	ug/L
7440-50-8	Copper	23.9	10.0	1.37	ug/L
7439-89-6	Iron	52.8B	100	40.0	ug/L
7439-95-4	Magnesium	124000	100	50.0	ug/L
7439-96-5	Manganese	82.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	20.6B	50.0	3.75	ug/L
7440-02-0	Nickel	1.60B	40.0	0.96	ug/L
7440-09-7	Potassium	11600	500	100	ug/L
7440-62-2	Vanadium	73.5	20.0	3.75	ug/L
7440-66-6	Zinc	394	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2170000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	34.3	10.0	0.11	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7120	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	83.1	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.00B	10.0	2.80	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.011	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.309	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	342	20.0	4.20	mg/L
14808-79-8	Sulfate	233	40.0	15.8	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	37300	100	50.0	ug/L
7440-50-8	Copper	7.72B	10.0	1.37	ug/L
7439-89-6	Iron	147	100	40.0	ug/L
7439-95-4	Magnesium	16200	100	50.0	ug/L
7439-96-5	Manganese	426	15.0	2.00	ug/L
7439-98-7	Molybdenum	11.1B	50.0	3.75	ug/L
7440-09-7	Potassium	3260	500	100	ug/L
7440-23-5	Sodium	315000	1000	200	ug/L
7440-62-2	Vanadium	29.4	20.0	3.75	ug/L
7440-66-6	Zinc	7.64B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	40.8	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	37.6	10.0	0.11	ug/L
7440-70-2	Calcium	38500	100	50.0	ug/L
7440-50-8	Copper	6.97B	10.0	1.37	ug/L
7439-89-6	Iron	142	100	40.0	ug/L
7439-95-4	Magnesium	17400	100	50.0	ug/L
7439-96-5	Manganese	440	15.0	2.00	ug/L
7439-98-7	Molybdenum	12.0B	50.0	3.75	ug/L
7440-09-7	Potassium	3340	500	100	ug/L
7782-49-2	Selenium	5.00B	40.0	4.34	ug/L
7440-23-5	Sodium	319000	1000	200	ug/L
7440-62-2	Vanadium	32.2	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	936	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	121	10.0	2.10	mg/L
14808-79-8	Sulfate	476	20.0	7.90	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	2.44	0.050	0.013	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.008B	0.010	0.003	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	272	200	60.0	ug/L
7440-38-2	Arsenic	9.41B	10.0	2.53	ug/L
7440-39-3	Barium	32.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.69B	5.00	0.20	ug/L
7440-70-2	Calcium	120000	100	50.0	ug/L
7440-47-3	Chromium	1.95B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.37	ug/L
7439-89-6	Iron	127	100	40.0	ug/L
7439-95-4	Magnesium	57700	100	50.0	ug/L
7439-98-7	Molybdenum	9.72B	50.0	3.75	ug/L
7440-09-7	Potassium	9970	500	100	ug/L
7782-49-2	Selenium	9.90B	40.0	4.34	ug/L
7440-23-5	Sodium	181000	1000	200	ug/L
7440-32-6	Titanium	5.29B	100	1.20	ug/L
7440-62-2	Vanadium	98.8	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1100	200	60.0	ug/L
7440-38-2	Arsenic	6.10B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.51B	5.00	0.20	ug/L
7440-70-2	Calcium	122000	100	50.0	ug/L
7440-47-3	Chromium	4.41B	10.0	1.00	ug/L
7440-50-8	Copper	15.0	10.0	1.37	ug/L
7439-89-6	Iron	669	100	40.0	ug/L
7439-95-4	Magnesium	57600	100	50.0	ug/L
7439-96-5	Manganese	19.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	9.63B	50.0	3.75	ug/L
7440-02-0	Nickel	1.27B	40.0	0.96	ug/L
7440-09-7	Potassium	10300	500	100	ug/L
7782-49-2	Selenium	11.0B	40.0	4.34	ug/L
7440-23-5	Sodium	184000	1000	200	ug/L
7440-32-6	Titanium	10.6B	100	1.20	ug/L
7440-62-2	Vanadium	99.7	20.0	3.75	ug/L
7440-66-6	Zinc	15.6B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	48.9	10.0	0.11	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	244	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	32.0	10.0	2.80	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	900	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2050	100	21.0	mg/L
14808-79-8	Sulfate	1530	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	72.4B	200	60.0	ug/L
7440-43-9	Cadmium	1.11B	5.00	0.20	ug/L
7440-70-2	Calcium	286000	100	50.0	ug/L
7440-47-3	Chromium	2.38B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.38B	10.0	1.00	ug/L
7440-50-8	Copper	20.1	10.0	1.37	ug/L
7439-89-6	Iron	2820	100	40.0	ug/L
7439-95-4	Magnesium	188000	100	50.0	ug/L
7439-96-5	Manganese	436	15.0	2.00	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7440-62-2	Vanadium	64.3	20.0	3.75	ug/L
7440-66-6	Zinc	865	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1100000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	26.0	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.007B	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5500	10.0	10.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.75B	10.0	2.53	ug/L
7440-39-3	Barium	21.8	10.0	0.11	ug/L
7440-43-9	Cadmium	1.27B	5.00	0.20	ug/L
7440-70-2	Calcium	285000	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-47-3	Chromium	2.18B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.18B	10.0	1.00	ug/L
7440-50-8	Copper	18.0	10.0	1.37	ug/L
7439-89-6	Iron	2590	100	40.0	ug/L
7439-95-4	Magnesium	188000	100	50.0	ug/L
7439-96-5	Manganese	432	15.0	2.00	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7440-62-2	Vanadium	64.6	20.0	3.75	ug/L
7440-66-6	Zinc	615	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1110000	5000	1000	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	302	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	40.3	5.00	1.05	mg/L
14808-79-8	Sulfate	110	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	153B	200	60.0	ug/L
7440-38-2	Arsenic	6.33B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.65B	5.00	0.20	ug/L
7440-70-2	Calcium	41200	100	50.0	ug/L
7440-47-3	Chromium	15.9	10.0	1.00	ug/L
16065-83-1	Chromium (III)	15.9	10.0	1.00	ug/L
7440-50-8	Copper	814	10.0	1.37	ug/L
7439-89-6	Iron	168	100	40.0	ug/L
7439-92-1	Lead	1.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	18700	100	50.0	ug/L
7439-96-5	Manganese	5.27B	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.4B	50.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-02-0	Nickel	6.94B	40.0	0.96	ug/L
7440-09-7	Potassium	2770	500	100	ug/L
7440-23-5	Sodium	65500	1000	200	ug/L
7440-62-2	Vanadium	78.6	20.0	3.75	ug/L
7440-66-6	Zinc	52.4	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	35.6	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.372	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	520	10.0	10.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.34B	10.0	2.53	ug/L
7440-39-3	Barium	33.8	10.0	0.11	ug/L
7440-43-9	Cadmium	1.01B	5.00	0.20	ug/L
7440-70-2	Calcium	44400	100	50.0	ug/L
7440-50-8	Copper	554	10.0	1.37	ug/L
7439-95-4	Magnesium	20200	100	50.0	ug/L
7439-96-5	Manganese	9.28B	15.0	2.00	ug/L
7439-98-7	Molybdenum	11.6B	50.0	3.75	ug/L
7440-09-7	Potassium	2870	500	100	ug/L
7440-23-5	Sodium	68800	1000	200	ug/L
7440-62-2	Vanadium	79.9	20.0	3.75	ug/L
7440-66-6	Zinc	38.2	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.99B	10.0	2.53	ug/L
7440-39-3	Barium	11.9	10.0	0.11	ug/L
7440-70-2	Calcium	66700	100	50.0	ug/L
7440-47-3	Chromium	1.98B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.98B	10.0	1.00	ug/L
7440-50-8	Copper	14.5	10.0	1.37	ug/L
7439-95-4	Magnesium	62400	100	50.0	ug/L
7439-98-7	Molybdenum	26.0B	50.0	3.75	ug/L
7440-09-7	Potassium	11400	500	100	ug/L
7782-49-2	Selenium	23.3B	40.0	4.34	ug/L
7440-62-2	Vanadium	58.1	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	633000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.6B	200	60.0	ug/L
7440-70-2	Calcium	65900	100	50.0	ug/L
7440-47-3	Chromium	2.31B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.31B	10.0	1.00	ug/L
7440-50-8	Copper	16.1	10.0	1.37	ug/L
7439-95-4	Magnesium	61800	100	50.0	ug/L
7439-96-5	Manganese	13.8B	15.0	2.00	ug/L
7439-98-7	Molybdenum	25.4B	50.0	3.75	ug/L
7440-02-0	Nickel	1.18B	40.0	0.96	ug/L
7440-09-7	Potassium	11400	500	100	ug/L
7782-49-2	Selenium	26.3B	40.0	4.34	ug/L
7440-62-2	Vanadium	59.0	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	628000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.3	10.0	0.11	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2670	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	133	1.0	0.21	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	715	50.0	10.5	mg/L
14808-79-8	Sulfate	994	100	39.5	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.59	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0396	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4710	200	60.0	ug/L
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-39-3	Barium	493	10.0	0.11	ug/L
7440-41-7	Beryllium	494	5.00	0.11	ug/L
7440-43-9	Cadmium	488	5.00	0.20	ug/L
7440-70-2	Calcium	75600	100	50.0	ug/L
7440-47-3	Chromium	472	10.0	1.00	ug/L
7440-48-4	Cobalt	484	10.0	1.00	ug/L
7440-50-8	Copper	512	10.0	1.37	ug/L
7439-89-6	Iron	4790	100	40.0	ug/L
7439-92-1	Lead	475	15.0	1.39	ug/L
7439-95-4	Magnesium	69900	100	50.0	ug/L
7439-96-5	Manganese	486	15.0	2.00	ug/L
7439-98-7	Molybdenum	520	50.0	3.75	ug/L
7440-02-0	Nickel	481	40.0	0.96	ug/L
7440-09-7	Potassium	21900	500	100	ug/L
7782-49-2	Selenium	531	40.0	4.34	ug/L
7440-22-4	Silver	495	10.0	0.60	ug/L
7440-28-0	Thallium	465	20.0	1.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	480	100	1.20	ug/L
7440-62-2	Vanadium	554	20.0	3.75	ug/L
7440-66-6	Zinc	511	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	682000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4930	200	60.0	ug/L
7440-36-0	Antimony	521	60.0	4.03	ug/L
7440-38-2	Arsenic	520	10.0	2.53	ug/L
7440-41-7	Beryllium	501	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	75500	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	497	10.0	1.00	ug/L
7440-50-8	Copper	522	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	486	15.0	1.39	ug/L
7439-95-4	Magnesium	70400	100	50.0	ug/L
7439-96-5	Manganese	499	15.0	2.00	ug/L
7439-98-7	Molybdenum	538	50.0	3.75	ug/L
7440-02-0	Nickel	493	40.0	0.96	ug/L
7440-09-7	Potassium	22600	500	100	ug/L
7782-49-2	Selenium	542	40.0	4.34	ug/L
7440-22-4	Silver	502	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	518	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	676000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	418	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.484	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10	0.050	0.013	mg/L-N

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.01	0.20	0.081	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.06	0.20	0.081	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0398	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4700	200	60.0	ug/L
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	526	10.0	2.53	ug/L
7440-39-3	Barium	495	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	74900	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	491	10.0	1.00	ug/L
7440-50-8	Copper	508	10.0	1.37	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	483	15.0	1.39	ug/L
7439-95-4	Magnesium	70700	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	488	40.0	0.96	ug/L
7440-09-7	Potassium	21800	500	100	ug/L
7782-49-2	Selenium	548	40.0	4.34	ug/L
7440-22-4	Silver	489	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	481	100	1.20	ug/L
7440-62-2	Vanadium	558	20.0	3.75	ug/L
7440-66-6	Zinc	510	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	677000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4980	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	491	5.00	0.20	ug/L
7440-70-2	Calcium	76400	100	50.0	ug/L
7440-47-3	Chromium	482	10.0	1.00	ug/L
7440-48-4	Cobalt	487	10.0	1.00	ug/L
7440-50-8	Copper	521	10.0	1.37	ug/L
7439-89-6	Iron	5060	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	72400	100	50.0	ug/L
7439-96-5	Manganese	497	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	482	40.0	0.96	ug/L
7440-09-7	Potassium	23000	500	100	ug/L
7782-49-2	Selenium	528	40.0	4.34	ug/L
7440-22-4	Silver	498	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	516	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	695000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	426	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.08	0.050	0.013	mg/L-N

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	3.89	0.20	0.081	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.15	0.20	0.081	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	**MWQ14-DUP**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	137	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2590	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	6.00B	60.0	4.03	ug/L
7440-38-2	Arsenic	3.95B	10.0	2.53	ug/L
7440-39-3	Barium	21.5	10.0	0.11	ug/L
7440-43-9	Cadmium	2.01B	5.00	0.20	ug/L
7440-70-2	Calcium	544000	100	50.0	ug/L
7440-47-3	Chromium	2.58B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.58B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.10B	10.0	1.00	ug/L
7440-50-8	Copper	21.3	10.0	1.37	ug/L
7439-89-6	Iron	71.1B	100	40.0	ug/L
7439-95-4	Magnesium	306000	100	50.0	ug/L
7439-96-5	Manganese	934	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.4B	50.0	3.75	ug/L
7440-09-7	Potassium	15700	500	100	ug/L
7440-62-2	Vanadium	64.1	20.0	3.75	ug/L
7440-66-6	Zinc	2190	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2780000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	261	200	60.0	ug/L
7440-36-0	Antimony	20.3B	60.0	4.03	ug/L
7440-43-9	Cadmium	1.93B	5.00	0.20	ug/L
7440-70-2	Calcium	556000	100	50.0	ug/L
7440-47-3	Chromium	3.38B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.38B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.23B	10.0	1.00	ug/L
7440-50-8	Copper	23.2	10.0	1.37	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	241	100	40.0	ug/L
7439-95-4	Magnesium	311000	100	50.0	ug/L
7439-96-5	Manganese	967	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.0B	50.0	3.75	ug/L
7440-09-7	Potassium	16200	500	100	ug/L
7440-32-6	Titanium	1.42B	100	1.20	ug/L
7440-62-2	Vanadium	64.0	20.0	3.75	ug/L
7440-66-6	Zinc	2370	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2970000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	26.3	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6010	200	42.0	mg/L
14808-79-8	Sulfate	1630	400	158	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	55.7	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	11900	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.33B	60.0	4.03	ug/L
7440-39-3	Barium	21.8	10.0	0.11	ug/L
7440-43-9	Cadmium	2.08B	5.00	0.20	ug/L
7440-70-2	Calcium	554000	100	50.0	ug/L
7440-47-3	Chromium	2.35B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.35B	10.0	1.00	ug/L
7440-50-8	Copper	19.9	10.0	1.37	ug/L
7439-89-6	Iron	66.2B	100	40.0	ug/L
7439-95-4	Magnesium	312000	100	50.0	ug/L
7439-96-5	Manganese	955	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.6B	50.0	3.75	ug/L
7440-09-7	Potassium	16000	500	100	ug/L
7440-62-2	Vanadium	64.2	20.0	3.75	ug/L
7440-66-6	Zinc	2240	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2850000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	285	200	60.0	ug/L
7440-36-0	Antimony	4.80B	60.0	4.03	ug/L
7440-43-9	Cadmium	1.93B	5.00	0.20	ug/L
7440-70-2	Calcium	574000	100	50.0	ug/L
7440-47-3	Chromium	3.42B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.42B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.12B	10.0	1.00	ug/L
7440-50-8	Copper	21.8	10.0	1.37	ug/L
7439-89-6	Iron	271	100	40.0	ug/L
7439-95-4	Magnesium	321000	100	50.0	ug/L
7439-96-5	Manganese	994	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.3B	50.0	3.75	ug/L
7440-09-7	Potassium	16800	500	100	ug/L
7440-32-6	Titanium	1.73B	100	1.20	ug/L
7440-62-2	Vanadium	63.4	20.0	3.75	ug/L
7440-66-6	Zinc	2410	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3050000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	27.4	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6090	200	42.0	mg/L
14808-79-8	Sulfate	1480	400	158	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.9	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	12000	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.071B	0.100	0.021	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.62B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.25B	5.00	0.20	ug/L
7440-70-2	Calcium	135	100	50.0	ug/L
7440-50-8	Copper	2.40B	10.0	1.37	ug/L
7439-96-5	Manganese	2.79B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-09-7	Potassium	147B	500	100	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	216B	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	4.73B	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	2.36B	10.0	0.11	ug/L
7440-43-9	Cadmium	0.41B	5.00	0.20	ug/L
7440-70-2	Calcium	137	100	50.0	ug/L
7440-50-8	Copper	2.69B	10.0	1.37	ug/L
7439-96-5	Manganese	3.52B	15.0	2.00	ug/L
7440-02-0	Nickel	1.22B	40.0	0.96	ug/L
7440-09-7	Potassium	260B	500	100	ug/L
7440-66-6	Zinc	2.79B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	404B	1000	200	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	107	5.00	1.05	mg/L
14808-79-8	Sulfate	216	10.0	3.95	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.95B	10.0	2.53	ug/L
7440-39-3	Barium	20.8	10.0	0.11	ug/L
7440-70-2	Calcium	69200	100	50.0	ug/L
7440-50-8	Copper	9.01B	10.0	1.37	ug/L
7439-89-6	Iron	566	100	40.0	ug/L
7439-92-1	Lead	1.90B	15.0	1.39	ug/L
7439-95-4	Magnesium	33700	100	50.0	ug/L
7439-96-5	Manganese	158	15.0	2.00	ug/L
7440-09-7	Potassium	5560	500	100	ug/L
7782-49-2	Selenium	8.02B	40.0	4.34	ug/L
7440-23-5	Sodium	67800	1000	200	ug/L
7440-62-2	Vanadium	59.3	20.0	3.75	ug/L
7440-66-6	Zinc	4.65B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	69.7B	200	60.0	ug/L
7440-38-2	Arsenic	5.89B	10.0	2.53	ug/L
7440-39-3	Barium	24.1	10.0	0.11	ug/L
7440-70-2	Calcium	69200	100	50.0	ug/L
7440-47-3	Chromium	2.02B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.02B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.74B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.37	ug/L
7439-89-6	Iron	7450	100	40.0	ug/L
7439-92-1	Lead	2.50B	15.0	1.39	ug/L
7439-95-4	Magnesium	33800	100	50.0	ug/L
7439-96-5	Manganese	265	15.0	2.00	ug/L
7440-02-0	Nickel	1.09B	40.0	0.96	ug/L
7440-09-7	Potassium	5470	500	100	ug/L
7782-49-2	Selenium	9.06B	40.0	4.34	ug/L
7440-23-5	Sodium	69600	1000	200	ug/L
7440-62-2	Vanadium	69.9	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	93.6	20.0	2.72	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.013	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**658**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.408**	**0.010**	**0.003**	**mg/L-N**

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**129**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:06	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:11	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:40	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.70J**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**13.5**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**31.1**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.44J**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**30200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.65J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.65J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.4**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**33100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**3.84J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6210**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**81700**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:40	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**104**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 15:17	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**15.9**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**27.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.83J**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**29600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.15J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.15J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**6.40J**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**32300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.54J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6210**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**80300**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**100**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**430**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:51	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.738**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:44	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 17:14	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**68.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**150**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**145**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:06	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:13	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:14	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:46	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**11.0**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**50.4**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.36B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3310**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**55900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:46	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.24B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:32	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.07B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**10.5**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**46.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.94B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.83B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.61B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19200**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3310**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**56400**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**78.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.38B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**300**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:14	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.43**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:45	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/10/2011 17:32	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**17.6**	**1.00**	**0.210**	**mg/L**
14808-79-8	**Sulfate**	**59.0**	**2.00**	**0.790**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**177**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:16	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:18	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:52	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**9.27B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**35.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.76B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42500**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.48B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.48B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.64B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**23100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3260**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**65200**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:52	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**84.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.88B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:38	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.74B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**7.43B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**30.3**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.10B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40800**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.59B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**21600**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3240**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**63600**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**80.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**374**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:18	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.53**	**0.100**	**0.026**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:46	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 17:49	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.8**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**90.8**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**175**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:19	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:21	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:58	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.82B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**34.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.78B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**41600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.35B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.35B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**4.06B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**22000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.01B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3130**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**64000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:58	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**81.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.77B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:18	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**8.16B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**31.1**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.96B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42000**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.54B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**5.28B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**22300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3180**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**64800**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**83.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**380**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:19	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.19**	**0.100**	**0.026**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:48	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:07	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.5**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**91.5**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**170**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:09	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:22	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:24	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:05	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**10.2**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**38.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.72B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.42B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.42B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.09B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**19700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2120**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**57900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:05	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**77.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.87B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:24	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.16B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**34.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.96B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.23B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.42B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2610**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**57900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**78.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**5.61B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**352**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:20	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.39**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:49	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:24	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.4**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**85.5**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**160**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:10	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:25	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:30	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:11	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.80B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**33.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.87B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**57600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.93B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**4.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**24500**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2690**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**72000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:11	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:30	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.98B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**8.35B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**29.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.35B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**57200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.34B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.34B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.81B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**3.40B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**24600**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2650**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**6.12B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**72700**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**480**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/04/2011 15:21	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.31**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:50	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 19:17	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**59.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**156**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**147**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:19	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:11	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:01	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09210B**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:55	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:48	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**8.34B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**124**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.73B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**53600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**1.54B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**40400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**3.77B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**5950**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**21100**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:48	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**3.30B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 11:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.83B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**123**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.86B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54300**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.07B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.43B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**40500**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.87B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6090**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**21500**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.86B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**390**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:23	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**7.07**	**0.200**	**0.052**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:51	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:35	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**29.3**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**60.6**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**216**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:13	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**5.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:14	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:03	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.58**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:57	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.65**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4940**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**511**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**536**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**630**	**10.0**	**0.11**	**ug/L**
7440-41-7	**Beryllium**	**508**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**504**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**60000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**499**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**471**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**495**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5040**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**505**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**47300**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**504**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**514**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**456**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**16300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**510**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**501**	**10.0**	**0.60**	**ug/L**
7440-23-5	**Sodium**	**41300**	**1000**	**200**	**ug/L**
7440-28-0	**Thallium**	**519**	**20.0**	**1.75**	**ug/L**
7440-32-6	**Titanium**	**498**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	571	20.0	3.75	ug/L
7440-66-6	Zinc	500	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4670	200	60.0	ug/L
7440-36-0	Antimony	501	60.0	4.03	ug/L
7440-38-2	Arsenic	522	10.0	2.53	ug/L
7440-39-3	Barium	596	10.0	0.11	ug/L
7440-41-7	Beryllium	487	5.00	0.11	ug/L
7440-43-9	Cadmium	480	5.00	0.20	ug/L
7440-70-2	Calcium	57100	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	459	10.0	1.00	ug/L
7440-50-8	Copper	468	10.0	1.37	ug/L
7439-89-6	Iron	4690	100	40.0	ug/L
7439-92-1	Lead	495	15.0	1.39	ug/L
7439-95-4	Magnesium	43300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	497	50.0	3.75	ug/L
7440-02-0	Nickel	444	40.0	0.96	ug/L
7440-09-7	Potassium	15100	500	100	ug/L
7782-49-2	Selenium	505	40.0	4.34	ug/L
7440-22-4	Silver	481	10.0	0.60	ug/L
7440-23-5	Sodium	39100	1000	200	ug/L
7440-28-0	Thallium	493	20.0	1.75	ug/L
7440-32-6	Titanium	475	100	1.20	ug/L
7440-62-2	Vanadium	545	20.0	3.75	ug/L
7440-66-6	Zinc	480	20.0	2.72	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:24	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.6	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:55	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.468**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:52	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**78.1**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**161**	**4.00**	**1.58**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:14	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**535**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:15	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0375**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:05	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.30**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:58	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.29**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4870**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**523**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**544**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**626**	**10.0**	**0.11**	**ug/L**
7440-41-7	**Beryllium**	**504**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**499**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**59400**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**496**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**479**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**490**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**4940**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**513**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**46200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**500**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**524**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**463**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**16200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**527**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**499**	**10.0**	**0.60**	**ug/L**
7440-23-5	**Sodium**	**41800**	**1000**	**200**	**ug/L**
7440-28-0	**Thallium**	**524**	**20.0**	**1.75**	**ug/L**
7440-32-6	**Titanium**	**497**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	531	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:07	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4830	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	538	10.0	2.53	ug/L
7440-39-3	Barium	620	10.0	0.11	ug/L
7440-41-7	Beryllium	503	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	60600	100	50.0	ug/L
7440-47-3	Chromium	486	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	484	10.0	1.37	ug/L
7439-89-6	Iron	4890	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	47000	100	50.0	ug/L
7439-96-5	Manganese	495	15.0	2.00	ug/L
7439-98-7	Molybdenum	506	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	519	40.0	4.34	ug/L
7440-22-4	Silver	496	10.0	0.60	ug/L
7440-23-5	Sodium	41100	1000	200	ug/L
7440-28-0	Thallium	503	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	495	20.0	2.72	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:25	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:56	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.470**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 20:10	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**80.9**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**160**	**4.00**	**1.58**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**531**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:16	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0376**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	**MWQ-10-DUP**	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**388**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**220**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:27	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:49	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**187000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.53B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**52.8B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**124000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**82.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**20.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.60B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**11600**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**73.5**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**394**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 20:17	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2170000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:05	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**34.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.00B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**28.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.49B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**204000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.25B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**135000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**50.1**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**22.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.89B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**12600**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**71.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**426**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 17:29	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2260000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7120**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:28	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.244**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:06	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/10/2011 23:42	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3310**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1350**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**83.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:36	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**3.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:10	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:38	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:40	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:23	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**37300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.72B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**147**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**16200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**426**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**11.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3260**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**315000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:23	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**29.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.64B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:22	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**40.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:49	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**37.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**38500**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**6.97B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**142**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**17400**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**440**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**12.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3340**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.00B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**319000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**32.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**936**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:01	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.309**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:18	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.011**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 18:29	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**342**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**233**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**147**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:39	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:30	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:41	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:43	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:30	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1100**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**6.10B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.51B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**122000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.41B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**669**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**57600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**19.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**9.63B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.27B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**11.0B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**184000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**10.6B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:30	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**99.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**15.6B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:30	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**48.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**272**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**9.41B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**32.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.69B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**120000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.95B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**127**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**57700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**9.72B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**9970**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**9.90B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**181000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**5.29B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**98.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**900**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/12/2011 16:08	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**2.44**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:22	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.008B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	05/12/2011 19:04	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**121**	**10.0**	**2.10**	**mg/L**
14808-79-8	**Sulfate**	**476**	**20.0**	**7.90**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**244**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:40	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**32.0**	**10.0**	**2.80**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:31	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:48	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:49	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:37	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**72.4B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.11B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**286000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.38B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**20.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**2820**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**188000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**436**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**64.3**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:37	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**865**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/26/2011 00:14	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1100000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:37	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**26.0**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.75B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**21.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.27B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**285000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.18B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.18B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**18.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**2590**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**188000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**432**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**615**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:48	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1110000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5500**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:02	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:20	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.007B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/16/2011 20:45	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2050**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1530**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**302**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:04	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:57	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:51	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:53	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:44	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**153B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**6.33B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.65B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**41200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**15.9**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**15.9**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**814**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**168**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**18700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.27B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**6.94B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**2770**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**65500**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:44	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**78.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**52.4**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:34	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**35.6**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:38	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.34B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**33.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.01B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**44400**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**554**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**20200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**9.28B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**11.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2870**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**68800**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**38.2**	**20.0**	**2.72**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**520**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:05	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.372**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:24	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/16/2011 21:55	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**40.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**110**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**161**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:05	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:58	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:34	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:24	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:20	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**60.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**65900**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.31B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**16.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**61800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**13.8B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**25.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.18B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**11400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**26.3B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**59.0**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:20	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:38	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**628000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:13	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**15.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.99B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**11.9**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**66700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.98B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.98B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**14.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**62400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**26.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**11400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**23.3B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**58.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:13	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**633000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2670**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:31	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.59**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:46	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/16/2011 21:38	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**715**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**994**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**133**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:59	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:35	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.01**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:29	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.06**	**0.20**	**0.081**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4930	200	60.0	ug/L
7440-36-0	Antimony	521	60.0	4.03	ug/L
7440-38-2	Arsenic	520	10.0	2.53	ug/L
7440-41-7	Beryllium	501	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	75500	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	497	10.0	1.00	ug/L
7440-50-8	Copper	522	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	486	15.0	1.39	ug/L
7439-95-4	Magnesium	70400	100	50.0	ug/L
7439-96-5	Manganese	499	15.0	2.00	ug/L
7439-98-7	Molybdenum	538	50.0	3.75	ug/L
7440-02-0	Nickel	493	40.0	0.96	ug/L
7440-09-7	Potassium	22600	500	100	ug/L
7782-49-2	Selenium	542	40.0	4.34	ug/L
7440-22-4	Silver	502	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	518	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:45	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	676000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:21	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4710	200	60.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-39-3	Barium	493	10.0	0.11	ug/L
7440-41-7	Beryllium	494	5.00	0.11	ug/L
7440-43-9	Cadmium	488	5.00	0.20	ug/L
7440-70-2	Calcium	75600	100	50.0	ug/L
7440-47-3	Chromium	472	10.0	1.00	ug/L
7440-48-4	Cobalt	484	10.0	1.00	ug/L
7440-50-8	Copper	512	10.0	1.37	ug/L
7439-89-6	Iron	4790	100	40.0	ug/L
7439-92-1	Lead	475	15.0	1.39	ug/L
7439-95-4	Magnesium	69900	100	50.0	ug/L
7439-96-5	Manganese	486	15.0	2.00	ug/L
7439-98-7	Molybdenum	520	50.0	3.75	ug/L
7440-02-0	Nickel	481	40.0	0.96	ug/L
7440-09-7	Potassium	21900	500	100	ug/L
7782-49-2	Selenium	531	40.0	4.34	ug/L
7440-22-4	Silver	495	10.0	0.60	ug/L
7440-28-0	Thallium	465	20.0	1.75	ug/L
7440-32-6	Titanium	480	100	1.20	ug/L
7440-62-2	Vanadium	554	20.0	3.75	ug/L
7440-66-6	Zinc	511	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:20	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	682000	5000	1000	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:32	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:48	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.484**	**0.010**	**0.003**	**mg/L-N**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**418**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:55	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0396**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:37	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.15**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:30	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**3.89**	**0.20**	**0.081**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:34	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4980	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	491	5.00	0.20	ug/L
7440-70-2	Calcium	76400	100	50.0	ug/L
7440-47-3	Chromium	482	10.0	1.00	ug/L
7440-48-4	Cobalt	487	10.0	1.00	ug/L
7440-50-8	Copper	521	10.0	1.37	ug/L
7439-89-6	Iron	5060	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	72400	100	50.0	ug/L
7439-96-5	Manganese	497	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	482	40.0	0.96	ug/L
7440-09-7	Potassium	23000	500	100	ug/L
7782-49-2	Selenium	528	40.0	4.34	ug/L
7440-22-4	Silver	498	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	516	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:52	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	695000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:27	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4700	200	60.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	526	10.0	2.53	ug/L
7440-39-3	Barium	495	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	74900	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	491	10.0	1.00	ug/L
7440-50-8	Copper	508	10.0	1.37	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	483	15.0	1.39	ug/L
7439-95-4	Magnesium	70700	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	488	40.0	0.96	ug/L
7440-09-7	Potassium	21800	500	100	ug/L
7782-49-2	Selenium	548	40.0	4.34	ug/L
7440-22-4	Silver	489	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	481	100	1.20	ug/L
7440-62-2	Vanadium	558	20.0	3.75	ug/L
7440-66-6	Zinc	510	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:27	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	677000	5000	1000	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:34	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.08	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:49	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.479**	**0.010**	**0.003**	**mg/L-N**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**426**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:56	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0398**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	**MWQ14-DUP**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2590**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**137**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:54	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:56	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:51	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**261**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**20.3B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.93B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**556000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.38B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.23B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**23.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**241**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**311000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**967**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16200**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.42B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**64.0**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:51	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**2370**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	25	05/26/2011 00:21	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2970000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:43	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**26.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:45	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**6.00B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**3.95B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**21.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**2.01B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**544000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.58B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.58B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.10B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**21.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**71.1B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**306000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**934**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**15700**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:45	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2190**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	25	05/25/2011 22:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2780000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11900**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:34	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.006B**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:19	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/19/2011 23:50	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6010**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**1630**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**55.7**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:16	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:12	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:57	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:59	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**285**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**4.80B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.93B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**574000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.42B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.42B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.12B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**21.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**271**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**321000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**994**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16800**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.73B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**63.4**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**2410**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	25	05/26/2011 00:28	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3050000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:50	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**27.4**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.33B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**21.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**2.08B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**554000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.35B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.35B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**19.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**66.2B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**312000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**955**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16000**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2240**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	25	05/25/2011 23:04	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2850000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**12000**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:37	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.006B**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:23	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/20/2011 00:43	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6090**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**1480**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**56.9**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:17	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:13	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 19:01	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 19:02	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 17:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.62B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.25B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**135**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**2.40B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**2.79B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**147B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 17:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:57	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**4.73B**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/31/2011 14:28	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**216B**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:58	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**2.36B**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.41B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**137**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**2.69B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**3.52B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.22B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**260B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:58	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**2.79B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/31/2011 14:21	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**404B**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	10.0	mg/L

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:29	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:24	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 01:54	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.071B**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:47	DJH	456757

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:08	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:15	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 15:15	456841	SW-846 7470A Dissolved	1	05/26/2011 18:19	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 15:15	456841	SW-846 7470A	1	05/26/2011 18:13	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456848	SW-846 3010A	1	05/26/2011 18:12	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**69.7B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**5.89B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**24.1**	**10.0**	**0.11**	**ug/L**
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**69200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.02B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.02B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.74B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**13.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**7450**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**2.50B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**33800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**265**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.09B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**5470**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**9.06B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**69600**	**1000**	**200**	**ug/L**
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.9**	**20.0**	**3.75**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456848	SW-846 3010A	1	05/31/2011 15:55	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-66-6	**Zinc**	**93.6**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/26/2011 16:50	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.95B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**20.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**69200**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/26/2011 16:50	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.01B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**566**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.90B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**33700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**158**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**5560**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**8.02B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**67800**	**1000**	**200**	**ug/L**
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**59.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.65B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/31/2011 14:48	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**658**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:25	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.013**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:20	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.408**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/20/2011 01:01	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**107**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**216**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:23	DJH	456752

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**129**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:09	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:14	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

Inorganics Quality Control Summary

Analytical Batch	455716	**Client ID**	MB455678			LCS455678		
Prep Batch	455678	**GCAL ID**	944211			944212		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/04/2011 16:30			05/04/2011 16:30		
		Analytical Date	05/05/2011 10:52			05/05/2011 10:53		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.83	117	80 - 120

Analytical Batch	455716	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch	455678	**GCAL ID**	21105042607			21105042608			21105042609			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/04/2011 16:30			05/04/2011 16:30			05/04/2011 16:30			
	Dissolved	**Analytical Date**	05/05/2011 11:01			05/05/2011 11:03			05/05/2011 11:05			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.09210	0.081	5.00	5.58	110	80 - 120	5.30	104	5	30

Analytical Batch	456386	**Client ID**	MB456158			LCS456158		
Prep Batch	456158	**GCAL ID**	946277			946278		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/16/2011 14:17			05/16/2011 14:19		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	4.99	100	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456386	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	456158	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	7470A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
	Dissolved	**Analytical Date**	05/16/2011 14:20			05/16/2011 14:22			05/16/2011 14:23		
		Matrix	Water			Water			Water		
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.081	5.00	4.66	93	80 - 120	4.80	96	3	30

Analytical Batch	457240	**Client ID**	MB456841			LCS456841		
Prep Batch	456841	**GCAL ID**	949550			949551		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/23/2011 15:15			05/23/2011 15:15		
		Analytical Date	05/26/2011 18:09			05/26/2011 18:11		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.46	109	80 - 120

Analytical Batch	457240	**Client ID**	MB457095			LCS457095		
Prep Batch	457095	**GCAL ID**	950607			950608		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/25/2011 11:20			05/25/2011 11:20		
		Analytical Date	05/26/2011 18:21			05/26/2011 18:22		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.48	110	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457240	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	457095	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20			05/25/2011 11:20			
	Dissolved	**Analytical Date**	05/26/2011 18:34		05/26/2011 18:35			05/26/2011 18:37			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.01	80	80 - 120	4.15	83	4	30

Analytical Batch	457240	**Client ID**	MWL6		948703MS			948703MSD			
Prep Batch	456841	**GCAL ID**	21105190401		949552			949553			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15			05/23/2011 15:15			
		Analytical Date	05/26/2011 18:13		05/26/2011 18:14			05/26/2011 18:16			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	5.62	112	75 - 125	5.58	112	0.6	30

Inorganics Quality Control Summary

Analytical Batch	455716	**Client ID**	MB455678		LCS455678		
Prep Batch	455678	**GCAL ID**	944211		944212		
Prep Method	SW-846 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/04/2011 16:30		05/04/2011 16:30		
		Analytical Date	05/05/2011 10:52		05/05/2011 10:53		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.83	117	80 - 120

Analytical Batch	455716	**Client ID**	MWQ-10		MWQ-10-MS			MWQ-10-MSD				
Prep Batch	455678	**GCAL ID**	21105042607		21105042608			21105042609				
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE		MS			MSD				
		Prep Date	05/04/2011 16:30		05/04/2011 16:30			05/04/2011 16:30				
		Analytical Date	05/05/2011 10:55		05/05/2011 10:57			05/05/2011 10:58				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.081	5.00	5.65	113	80 - 120	5.29	106	7	30	

Analytical Batch	456383	**Client ID**	MB455984		LCS455984		
Prep Batch	455984	**GCAL ID**	945531		945532		
Prep Method	SW-846 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 13:39		05/16/2011 13:41		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.89	98	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456383	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455984	**GCAL ID**	21105060810		21105060811			21105060812			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30			
		Analytical Date	05/16/2011 13:43		05/16/2011 13:44			05/16/2011 13:46			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.78	96	80 - 120	4.80	96	0.3	30

Analytical Batch	457240	**Client ID**	MB456841		LCS456841		
Prep Batch	456841	**GCAL ID**	949550		949551		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15		
		Analytical Date	05/26/2011 18:09		05/26/2011 18:11		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.46	109	80 - 120

Analytical Batch	457240	**Client ID**	MB457095		LCS457095		
Prep Batch	457095	**GCAL ID**	950607		950608		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20		
		Analytical Date	05/26/2011 18:21		05/26/2011 18:22		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.48	110	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457240	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	457095	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20			05/25/2011 11:20			
		Analytical Date	05/26/2011 18:24		05/26/2011 18:29			05/26/2011 18:30			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.06	81	80 - 120	3.89	**78***	4	30

Analytical Batch	457240	**Client ID**	MWL6		948703MS			948703MSD			
Prep Batch	456841	**GCAL ID**	21105190401		949552			949553			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15			05/23/2011 15:15			
		Analytical Date	05/26/2011 18:13		05/26/2011 18:14			05/26/2011 18:16			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	5.62	112	80 - 120	5.58	112	0.6	30

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MB455676	LCS455676
Prep Batch	455676	**GCAL ID**	944205	944206
Prep Method	SW-846 3010A	**Sample Type**	Method Blank	LCS
		Prep Date	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 13:36	05/10/2011 13:42
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4780	96	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	488	98	80 - 120
7440-38-2	Arsenic	4.59J	2.53	500	504	101	80 - 120
7440-39-3	Barium	5.66J	0.11	500	497	99	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	483	97	80 - 120
7440-43-9	Cadmium	0.49J	0.20	500	493	99	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4940	99	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	487	97	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	495	99	80 - 120
7440-50-8	Copper	1.37U	1.37	500	484	97	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4890	98	80 - 120
7439-92-1	Lead	1.39U	1.39	500	503	101	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4930	99	80 - 120
7439-96-5	Manganese	2.70J	2.00	500	491	98	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	493	99	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	483	97	80 - 120
7440-09-7	Potassium	100U	100	10000	9870	99	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	497	99	80 - 120
7440-22-4	Silver	0.60U	0.60	500	483	97	80 - 120
7440-23-5	Sodium	200U	200	20000	19200	96	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	508	102	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	483	97	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	488	98	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MWQ-10	MWQ-10-MS	MWQ-10-MSD
Prep Batch	455676	**GCAL ID**	21105042607	21105042608	21105042609
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 13:48	05/10/2011 13:54	05/10/2011 14:01
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4940	99	80 - 120	4870	97	1	30
7440-36-0	Antimony	0.0	4.03	500	511	102	80 - 120	523	105	2	30
7440-38-2	Arsenic	8.34	2.53	500	536	106	80 - 120	544	107	2	30
7440-39-3	Barium	124	0.11	500	630	101	80 - 120	626	100	0.8	30
7440-41-7	Beryllium	0.0	0.11	500	508	102	80 - 120	504	101	0.8	30
7440-43-9	Cadmium	0.73	0.20	500	504	101	80 - 120	499	100	1	30
7440-70-2	Calcium	53600	50.0	5000	60000	**129***	80 - 120	59400	117	1	30
7440-47-3	Chromium	0.46	1.00	500	499	100	80 - 120	496	99	0.7	30
7440-48-4	Cobalt	0.0	1.00	500	471	94	80 - 120	479	96	1	30
7440-50-8	Copper	12.3	1.37	500	495	96	80 - 120	490	96	1	30
7439-89-6	Iron	0.0	40.0	5000	5040	101	80 - 120	4940	99	2	30
7439-92-1	Lead	1.54	1.39	500	505	101	80 - 120	513	102	2	30
7439-95-4	Magnesium	40400	50.0	5000	47300	**138***	80 - 120	46200	116	2	30
7439-96-5	Manganese	1.32	2.00	500	504	101	80 - 120	500	100	0.8	30
7439-98-7	Molybdenum	3.77	3.75	500	514	102	80 - 120	524	104	2	30
7440-02-0	Nickel	0.0	0.96	500	456	91	80 - 120	463	93	1	30
7440-09-7	Potassium	5950	100	10000	16300	104	80 - 120	16200	102	0.9	30
7782-49-2	Selenium	0.0	4.34	500	510	102	80 - 120	527	105	3	30
7440-22-4	Silver	0.0	0.60	500	501	100	80 - 120	499	100	0.4	30
7440-23-5	Sodium	21100	200	20000	41300	101	80 - 120	41800	104	1	30
7440-28-0	Thallium	0.0	1.75	500	519	104	80 - 120	524	105	0.9	30
7440-32-6	Titanium	0.0	1.20	500	498	100	80 - 120	497	99	0.2	30
7440-62-2	Vanadium	68.8	3.75	500	571	100	80 - 120	565	99	1	30
7440-66-6	Zinc	3.30	2.72	500	500	99	80 - 120	531	106	6	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455827	LCS455827
Prep Batch	455827	**GCAL ID**	944933	944934
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 19:49	05/24/2011 19:57
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4700	94	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	463	93	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	455	91	80 - 120
7440-39-3	Barium	1.87J	0.11	500	479	96	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	466	93	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	466	93	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4640	93	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	473	95	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	468	94	80 - 120
7440-50-8	Copper	1.37U	1.37	500	471	94	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4610	92	80 - 120
7439-92-1	Lead	1.39U	1.39	500	467	93	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4590	92	80 - 120
7439-96-5	Manganese	3.24J	2.00	500	474	95	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	474	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	477	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	464	93	80 - 120
7440-22-4	Silver	0.60U	0.60	500	470	94	80 - 120
7440-23-5	Sodium	200U	200	20000	18100	91	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	466	93	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	467	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456691	LCS456691
Prep Batch	456691	**GCAL ID**	948867	948868
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 15:05	05/24/2011 15:13
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4850	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	470	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	474	95	80 - 120
7440-39-3	Barium	1.43J	0.11	500	487	97	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	478	96	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	481	96	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4810	96	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	484	97	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	478	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	481	96	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4830	97	80 - 120
7439-92-1	Lead	1.39U	1.39	500	477	95	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4840	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	484	97	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	477	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	490	98	80 - 120
7440-09-7	Potassium	100U	100	10000	9720	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	479	96	80 - 120
7440-22-4	Silver	0.60U	0.60	500	482	96	80 - 120
7440-23-5	Sodium	200U	200	20000	20500	102	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	477	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	478	96	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	479	96	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	485	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MWQ-14	MWQ14-MS	MWQ14-MSD
Prep Batch	456691	**GCAL ID**	21105042616	21105042617	21105042618
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 15:20	05/24/2011 15:27	05/24/2011 15:34
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	60.6	60.0	5000	4930	97	80 - 120	4980	98	1	30
7440-36-0	Antimony	0.0	4.03	500	521	104	80 - 120	510	102	2	30
7440-38-2	Arsenic	0.0	2.53	500	520	104	80 - 120	519	104	0.2	30
7440-41-7	Beryllium	0.0	0.11	500	501	100	80 - 120	498	100	0.6	30
7440-43-9	Cadmium	0.0	0.20	500	494	99	80 - 120	491	98	0.5	30
7440-70-2	Calcium	65900	50.0	5000	75500	**191***	80 - 120	76400	**210***	1	30
7440-47-3	Chromium	2.31	1.00	500	483	96	80 - 120	482	96	0.2	30
7440-48-4	Cobalt	0.0	1.00	500	497	99	80 - 120	487	97	2	30
7440-50-8	Copper	16.1	1.37	500	522	101	80 - 120	521	101	0.3	30
7439-89-6	Iron	0.0	40.0	5000	5010	100	80 - 120	5060	101	1	30
7439-92-1	Lead	0.0	1.39	500	486	97	80 - 120	478	96	2	30
7439-95-4	Magnesium	61800	50.0	5000	70400	**173***	80 - 120	72400	**213***	3	30
7439-96-5	Manganese	13.8	2.00	500	499	97	80 - 120	497	97	0.4	30
7439-98-7	Molybdenum	25.4	3.75	500	538	102	80 - 120	528	100	2	30
7440-02-0	Nickel	1.18	0.96	500	493	98	80 - 120	482	96	2	30
7440-09-7	Potassium	11400	100	10000	22600	112	80 - 120	23000	116	2	30
7782-49-2	Selenium	26.3	4.34	500	542	103	80 - 120	528	100	3	30
7440-22-4	Silver	0.0	0.60	500	502	100	80 - 120	498	100	0.7	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	472	94	1	30
7440-32-6	Titanium	0.0	1.20	500	495	99	80 - 120	493	99	0.5	30
7440-62-2	Vanadium	59.0	3.75	500	565	101	80 - 120	565	101	0.009	30
7440-66-6	Zinc	0.0	2.72	500	518	104	80 - 120	516	103	0.4	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	276	60.0	5000	5230	99	80 - 120	5210	99	0.5	30
7440-36-0	Antimony	0.0	4.03	500	515	103	80 - 120	508	102	1	30
7440-38-2	Arsenic	0.0	2.53	500	517	103	80 - 120	508	102	2	30
7440-41-7	Beryllium	0.0	0.11	500	496	99	80 - 120	498	100	0.3	30
7440-43-9	Cadmium	0.0	0.20	500	483	97	80 - 120	484	97	0.03	30
7440-70-2	Calcium	49700	50.0	5000	54200	90	80 - 120	54700	100	0.9	30
7440-47-3	Chromium	8.54	1.00	500	483	95	80 - 120	485	95	0.5	30
7440-48-4	Cobalt	0.0	1.00	500	496	99	80 - 120	488	98	2	30
7440-50-8	Copper	14.3	1.37	500	517	101	80 - 120	519	101	0.3	30
7439-89-6	Iron	204	40.0	5000	5090	98	80 - 120	5010	96	2	30
7439-92-1	Lead	0.0	1.39	500	484	97	80 - 120	478	96	1	30
7439-95-4	Magnesium	48700	50.0	5000	53100	87	80 - 120	52100	**68***	2	30
7439-96-5	Manganese	12.6	2.00	500	503	98	80 - 120	504	98	0.2	30
7439-98-7	Molybdenum	4.94	3.75	500	513	102	80 - 120	509	101	0.7	30
7440-02-0	Nickel	2.96	0.96	500	494	98	80 - 120	487	97	1	30
7440-09-7	Potassium	7780	100	10000	18000	102	80 - 120	17800	100	1	30
7782-49-2	Selenium	0.0	4.34	500	511	102	80 - 120	499	100	2	30
7440-22-4	Silver	0.0	0.60	500	492	98	80 - 120	494	99	0.4	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	470	94	2	30
7440-62-2	Vanadium	61.1	3.75	500	562	100	80 - 120	563	100	0.3	30
7440-66-6	Zinc	2.74	2.72	500	507	101	80 - 120	509	101	0.5	30
7440-32-6	Titanium	3.16	1.20	500	491	97	80 - 120	495	98	0.9	30

Inorganics Quality Control Summary

Analytical Batch	457118	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456691	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/25/2011 23:38			05/25/2011 23:45			05/25/2011 23:52		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		628000	1000	20000	676000	**244***	80 - 120	695000	**334***	3	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 19:35			05/25/2011 19:42			05/25/2011 19:49		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		567000	1000	20000	594000	**132***	80 - 120	594000	**131***	0.05	30

Analytical Batch	457201	**Client ID**	MB456848			LCS456848		
Prep Batch	456848	**GCAL ID**	949576			949577		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 17:58			05/26/2011 18:05		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4790	96	80 - 120
7440-36-0	Antimony		11.0J	4.03	500	457	91	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	478	96	80 - 120
7440-39-3	Barium		4.60J	0.11	500	469	94	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	497	99	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	462	92	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4680	94	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	464	93	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	470	94	80 - 120
7440-50-8	Copper		1.37U	1.37	500	464	93	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MB456848	LCS456848
Prep Batch	456848	**GCAL ID**	949576	949577
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 17:58	05/26/2011 18:05
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-89-6	Iron	40.0U	40.0	5000	4740	95	80 - 120
7439-92-1	Lead	1.39U	1.39	500	471	94	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4760	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	460	92	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	467	93	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	464	93	80 - 120
7440-09-7	Potassium	128J	100	10000	9520	95	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	473	95	80 - 120
7440-22-4	Silver	0.60U	0.60	500	474	95	80 - 120
7440-23-5	Sodium	200U	200	20000	19400	97	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	533	107	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	457	91	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	508	102	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	461	92	80 - 120

Analytical Batch	457201	**Client ID**	MWL6	948703MS	948703MSD
Prep Batch	456848	**GCAL ID**	21105190401	949578	949579
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 18:12	05/26/2011 18:18	05/26/2011 18:25
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	69.7	60.0	5000	4970	98	80 - 120	4900	97	1	30
7440-36-0	Antimony	0.0	4.03	500	509	102	80 - 120	511	102	0.3	30
7440-38-2	Arsenic	5.89	2.53	500	540	107	80 - 120	533	106	1	30
7440-39-3	Barium	24.1	0.11	500	509	97	80 - 120	499	95	2	30
7440-43-9	Cadmium	0.0	0.20	500	479	96	80 - 120	470	94	2	30
7440-70-2	Calcium	69200	50.0	5000	78800	**193***	80 - 120	76800	**152***	3	30
7440-47-3	Chromium	2.02	1.00	500	479	95	80 - 120	468	93	2	30
7440-48-4	Cobalt	1.74	1.00	500	472	94	80 - 120	466	93	1	30

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456848	**GCAL ID**	21105190401			949578			949579		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 18:12			05/26/2011 18:18			05/26/2011 18:25		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-50-8	Copper	13.3	1.37		500	485	94	80 - 120	475	92	2	30
7439-89-6	Iron	7450	40.0		5000	12900	110	80 - 120	12700	105	2	30
7439-92-1	Lead	2.50	1.39		500	485	96	80 - 120	483	96	0.5	30
7439-95-4	Magnesium	33800	50.0		5000	40600	**135***	80 - 120	40100	**126***	1	30
7439-96-5	Manganese	265	2.00		500	778	102	80 - 120	762	99	2	30
7439-98-7	Molybdenum	1.30	3.75		500	500	100	80 - 120	504	101	0.9	30
7440-02-0	Nickel	1.09	0.96		500	459	92	80 - 120	455	91	1	30
7440-09-7	Potassium	5470	100		10000	15500	100	80 - 120	15400	99	0.3	30
7782-49-2	Selenium	9.06	4.34		500	515	101	80 - 120	516	101	0.09	30
7440-22-4	Silver	0.0	0.60		500	494	99	80 - 120	484	97	2	30
7440-23-5	Sodium	69600	200		20000	91600	110	80 - 120	91300	108	0.3	30
7440-62-2	Vanadium	69.9	3.75		500	567	99	80 - 120	553	97	2	30
7440-32-6	Titanium	0.38	1.20		500	482	96	80 - 120	481	96	0.3	30

Analytical Batch	457290	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456691	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/27/2011 14:13			05/27/2011 14:21			05/27/2011 14:27		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium	15.3	0.11		500	500	97	80 - 120	500	97	0.1	30

Inorganics Quality Control Summary

Analytical Batch	457290	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/27/2011 14:54			05/27/2011 15:01			05/27/2011 15:08		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium		27.8	0.11	500	513	97	80 - 120	515	97	0.5	30

Analytical Batch	457428	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456848	**GCAL ID**	21105190401			949578			949579		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/31/2011 15:55			05/31/2011 16:02			05/31/2011 16:08		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-28-0	Thallium		0.0	1.75	500	559	112	80 - 120	537	107	4	30
7440-41-7	Beryllium		0.0	0.11	500	526	105	80 - 120	514	103	2	30
7440-66-6	Zinc		93.6	2.72	500	629	107	80 - 120	613	104	3	30

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MB455675	LCS455675
Prep Batch	455675	**GCAL ID**	944202	944203
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 11:42	05/10/2011 11:48
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5020	100	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	507	101	80 - 120
7440-38-2	Arsenic	3.02J	2.53	500	526	105	80 - 120
7440-39-3	Barium	1.68J	0.11	500	518	104	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	511	102	80 - 120
7440-43-9	Cadmium	0.67J	0.20	500	515	103	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	5070	101	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	504	101	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	521	104	80 - 120
7440-50-8	Copper	1.37U	1.37	500	504	101	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	5010	100	80 - 120
7439-92-1	Lead	1.39U	1.39	500	524	105	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	5060	101	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	514	103	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	511	102	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	508	102	80 - 120
7440-09-7	Potassium	100U	100	10000	10200	102	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	528	106	80 - 120
7440-22-4	Silver	0.60U	0.60	500	508	102	80 - 120
7440-23-5	Sodium	200U	200	20000	20400	102	80 - 120
7440-28-0	Thallium	3.18J	1.75	500	527	105	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	506	101	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	513	103	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	503	101	80 - 120

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MWQ-10	MWQ-10-MS	MWQ-10-MSD
Prep Batch	455675	**GCAL ID**	21105042607	21105042608	21105042609
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 11:54	05/10/2011 12:01	05/10/2011 12:07
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4670	93	80 - 120	4830	97	3	30
7440-36-0	Antimony	0.0	4.03	500	501	100	80 - 120	510	102	2	30
7440-38-2	Arsenic	7.83	2.53	500	522	103	80 - 120	538	106	3	30
7440-39-3	Barium	123	0.11	500	596	95	80 - 120	620	99	4	30
7440-41-7	Beryllium	0.0	0.11	500	487	97	80 - 120	503	101	3	30
7440-43-9	Cadmium	0.86	0.20	500	480	96	80 - 120	494	99	3	30
7440-70-2	Calcium	54300	50.0	5000	57100	**56***	80 - 120	60600	**126***	6	30
7440-47-3	Chromium	1.07	1.00	500	474	95	80 - 120	486	97	3	30
7440-48-4	Cobalt	0.0	1.00	500	459	92	80 - 120	471	94	3	30
7440-50-8	Copper	12.2	1.37	500	468	91	80 - 120	484	94	3	30
7439-89-6	Iron	0.0	40.0	5000	4690	94	80 - 120	4890	98	4	30
7439-92-1	Lead	2.43	1.39	500	495	99	80 - 120	501	100	1	30
7439-95-4	Magnesium	40500	50.0	5000	43300	**55***	80 - 120	47000	**130***	8	30
7439-96-5	Manganese	0.0	2.00	500	480	96	80 - 120	495	99	3	30
7439-98-7	Molybdenum	4.87	3.75	500	497	98	80 - 120	506	100	2	30
7440-02-0	Nickel	0.0	0.96	500	444	89	80 - 120	456	91	3	30
7440-09-7	Potassium	6090	100	10000	15100	91	80 - 120	16300	102	7	30
7782-49-2	Selenium	0.0	4.34	500	505	101	80 - 120	519	104	3	30
7440-22-4	Silver	0.0	0.60	500	481	96	80 - 120	496	99	3	30
7440-23-5	Sodium	21500	200	20000	39100	88	80 - 120	41100	98	5	30
7440-28-0	Thallium	0.0	1.75	500	493	99	80 - 120	503	101	2	30
7440-32-6	Titanium	0.0	1.20	500	475	95	80 - 120	486	97	2	30
7440-62-2	Vanadium	69.8	3.75	500	545	95	80 - 120	565	99	4	30
7440-66-6	Zinc	4.86	2.72	500	480	95	80 - 120	495	98	3	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455823	LCS455823
Prep Batch	455823	**GCAL ID**	944905	944906
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:39	05/24/2011 17:46
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5030	101	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	493	99	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	496	99	80 - 120
7440-39-3	Barium	3.16J	0.11	500	499	100	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	498	100	80 - 120
7440-43-9	Cadmium	0.45J	0.20	500	500	100	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4990	100	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	495	99	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper	1.37U	1.37	500	494	99	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4970	99	80 - 120
7439-92-1	Lead	1.39U	1.39	500	497	99	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4970	99	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	498	100	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	491	98	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	497	99	80 - 120
7440-09-7	Potassium	100U	100	10000	10100	101	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	503	101	80 - 120
7440-22-4	Silver	0.60U	0.60	500	502	100	80 - 120
7440-23-5	Sodium	200U	200	20000	19000	95	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	493	99	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	491	98	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	507	101	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	496	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456692	LCS456692
Prep Batch	456692	**GCAL ID**	948869	948870
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 13:01	05/24/2011 13:08
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4840	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	469	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	477	95	80 - 120
7440-39-3	Barium	1.90J	0.11	500	483	97	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	484	97	80 - 120
7440-43-9	Cadmium	0.46J	0.20	500	488	98	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4790	96	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	480	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	479	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	477	95	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4810	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	478	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4830	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	483	97	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	472	94	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	491	98	80 - 120
7440-09-7	Potassium	100U	100	10000	9690	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	490	98	80 - 120
7440-22-4	Silver	0.60U	0.60	500	486	97	80 - 120
7440-23-5	Sodium	200U	200	20000	19400	97	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	477	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	475	95	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	485	97	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MWQ-14	MWQ14-MS	MWQ14-MSD
Prep Batch	456692	**GCAL ID**	21105042616	21105042617	21105042618
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 13:15	05/24/2011 13:22	05/24/2011 13:29
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4710	94	80 - 120	4700	94	0.08	30
7440-36-0	Antimony	0.0	4.03	500	514	103	80 - 120	514	103	0.2	30
7440-38-2	Arsenic	3.99	2.53	500	519	103	80 - 120	526	104	1	30
7440-39-3	Barium	11.9	0.11	500	493	96	80 - 120	495	97	0.5	30
7440-41-7	Beryllium	0.0	0.11	500	494	99	80 - 120	495	99	0.2	30
7440-43-9	Cadmium	0.13	0.20	500	488	98	80 - 120	494	99	1	30
7440-70-2	Calcium	66700	50.0	5000	75600	**178***	80 - 120	74900	**164***	0.9	30
7440-47-3	Chromium	1.98	1.00	500	472	94	80 - 120	474	94	0.4	30
7440-48-4	Cobalt	0.0	1.00	500	484	97	80 - 120	491	98	1	30
7440-50-8	Copper	14.5	1.37	500	512	100	80 - 120	508	99	0.9	30
7439-89-6	Iron	0.0	40.0	5000	4790	96	80 - 120	4850	97	1	30
7439-92-1	Lead	0.0	1.39	500	475	95	80 - 120	483	97	2	30
7439-95-4	Magnesium	62400	50.0	5000	69900	**150***	80 - 120	70700	**167***	1	30
7439-96-5	Manganese	0.0	2.00	500	486	97	80 - 120	488	98	0.4	30
7439-98-7	Molybdenum	26.0	3.75	500	520	99	80 - 120	528	100	1	30
7440-02-0	Nickel	0.0	0.96	500	481	96	80 - 120	488	98	1	30
7440-09-7	Potassium	11400	100	10000	21900	105	80 - 120	21800	104	0.5	30
7782-49-2	Selenium	23.3	4.34	500	531	101	80 - 120	548	105	3	30
7440-22-4	Silver	0.0	0.60	500	495	99	80 - 120	489	98	1	30
7440-28-0	Thallium	0.0	1.75	500	465	93	80 - 120	472	94	1	30
7440-32-6	Titanium	0.0	1.20	500	480	96	80 - 120	481	96	0.06	30
7440-62-2	Vanadium	58.1	3.75	500	554	99	80 - 120	558	100	0.8	30
7440-66-6	Zinc	0.0	2.72	500	511	102	80 - 120	510	102	0.09	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	105	60.0	5000	5040	99	80 - 120	4850	95	4	20
7440-36-0	Antimony	0.0	4.03	500	535	107	80 - 120	518	104	3	20
7440-38-2	Arsenic	0.0	2.53	500	552	110	80 - 120	518	104	6	20
7440-39-3	Barium	18.0	0.11	500	524	101	80 - 120	496	96	5	20
7440-41-7	Beryllium	0.0	0.11	500	522	104	80 - 120	495	99	5	20
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	483	97	6	20
7440-70-2	Calcium	50800	50.0	5000	56100	105	80 - 120	54000	**64***	4	20
7440-47-3	Chromium	2.24	1.00	500	498	99	80 - 120	474	94	5	20
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	490	98	4	20
7440-50-8	Copper	13.4	1.37	500	535	104	80 - 120	509	99	5	20
7439-89-6	Iron	46.6	40.0	5000	5030	100	80 - 120	4870	96	3	20
7439-92-1	Lead	0.0	1.39	500	501	100	80 - 120	478	96	5	20
7439-95-4	Magnesium	50100	50.0	5000	54200	82	80 - 120	53200	**63***	2	20
7439-96-5	Manganese	2.16	2.00	500	515	103	80 - 120	488	97	5	20
7439-98-7	Molybdenum	5.66	3.75	500	526	104	80 - 120	510	101	3	20
7440-02-0	Nickel	0.0	0.96	500	507	101	80 - 120	486	97	4	20
7440-09-7	Potassium	7880	100	10000	18200	104	80 - 120	17800	99	2	20
7782-49-2	Selenium	0.0	4.34	500	540	108	80 - 120	514	103	5	20
7440-22-4	Silver	0.0	0.60	500	518	104	80 - 120	491	98	5	20
7440-28-0	Thallium	0.0	1.75	500	498	100	80 - 120	477	95	4	20
7440-62-2	Vanadium	58.3	3.75	500	581	105	80 - 120	553	99	5	20
7440-66-6	Zinc	0.0	2.72	500	532	106	80 - 120	506	101	5	20
7440-32-6	Titanium	1.53	1.20	500	507	101	80 - 120	486	97	4	20

Inorganics Quality Control Summary

Analytical Batch	457118	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456692	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/25/2011 22:13			05/25/2011 22:20			05/25/2011 22:27		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		633000	1000	20000	682000	**248***	80 - 120	677000	**221***	0.8	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455823	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 16:46			05/25/2011 16:54			05/25/2011 17:01		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		588000	1000	20000	620000	**158***	80 - 120	585000	**-20***	6	20

Analytical Batch	457201	**Client ID**	MB456846			LCS456846		
Prep Batch	456846	**GCAL ID**	949568			949569		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 16:37			05/26/2011 16:43		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4800	96	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	471	94	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	493	99	80 - 120
7440-39-3	Barium		1.89J	0.11	500	478	96	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	479	96	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	479	96	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4760	95	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	472	94	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	480	96	80 - 120
7440-50-8	Copper		1.37U	1.37	500	472	94	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MB456846	LCS456846
Prep Batch	456846	**GCAL ID**	949568	949569
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 16:37	05/26/2011 16:43
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-89-6	Iron	40.0U	40.0	5000	4790	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	481	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4840	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	470	94	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	468	94	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	475	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9700	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	495	99	80 - 120
7440-22-4	Silver	0.60U	0.60	500	488	98	80 - 120
7440-23-5	Sodium	200U	200	20000	19700	99	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	537	107	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	478	96	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	466	93	80 - 120

Analytical Batch	457201	**Client ID**	MWL6	948703MS	948703MSD
Prep Batch	456846	**GCAL ID**	21105190401	949570	949571
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 16:50	05/26/2011 16:57	05/26/2011 17:03
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4990	100	80 - 120	4720	94	6	20
7440-36-0	Antimony	0.0	4.03	500	519	104	80 - 120	494	99	5	20
7440-38-2	Arsenic	3.95	2.53	500	563	112	80 - 120	526	104	7	20
7440-39-3	Barium	20.8	0.11	500	514	99	80 - 120	487	93	5	20
7440-41-7	Beryllium	0.0	0.11	500	508	102	80 - 120	483	97	5	20
7440-43-9	Cadmium	0.0	0.20	500	492	98	80 - 120	466	93	5	20
7440-70-2	Calcium	69200	50.0	5000	80100	**219***	80 - 120	72600	**69***	10	20
7440-47-3	Chromium	0.62	1.00	500	481	96	80 - 120	457	91	5	20

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456846	**GCAL ID**	21105190401			949570			949571		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 16:50			05/26/2011 16:57			05/26/2011 17:03		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-48-4	Cobalt	0.56	1.00		500	481	96	80 - 120	454	91	6	20
7440-50-8	Copper	9.01	1.37		500	481	94	80 - 120	459	90	5	20
7439-89-6	Iron	566	40.0		5000	5670	102	80 - 120	5340	96	6	20
7439-92-1	Lead	1.90	1.39		500	500	100	80 - 120	472	94	6	20
7439-95-4	Magnesium	33700	50.0		5000	42500	**176***	80 - 120	38400	93	10	20
7439-96-5	Manganese	158	2.00		500	675	104	80 - 120	631	95	7	20
7439-98-7	Molybdenum	1.58	3.75		500	510	102	80 - 120	487	97	5	20
7440-02-0	Nickel	0.0	0.96		500	466	93	80 - 120	441	88	5	20
7440-09-7	Potassium	5560	100		10000	16000	105	80 - 120	15000	94	7	20
7782-49-2	Selenium	8.02	4.34		500	543	107	80 - 120	512	101	6	20
7440-22-4	Silver	0.0	0.60		500	504	101	80 - 120	481	96	5	20
7440-23-5	Sodium	67800	200		20000	97300	**147***	80 - 120	87000	96	11	20
7440-62-2	Vanadium	59.3	3.75		500	560	100	80 - 120	530	94	5	20
7440-66-6	Zinc	4.65	2.72		500	497	98	80 - 120	473	94	5	20
7440-32-6	Titanium	0.0	1.20		500	487	97	80 - 120	468	94	4	20

Analytical Batch	457428	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456846	**GCAL ID**	21105190401			949570			949571		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/31/2011 14:48			05/31/2011 14:54			05/31/2011 15:01		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-28-0	Thallium	0.0	1.75		500	566	113	80 - 120	532	106	6	20

General Chemistry Quality Control Summary

Analytical Batch 455672	**Client ID**	MB455672			LCS455672		
Prep Batch N/A	**GCAL ID**	944157			944158		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:40			05/04/2011 14:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	982	98.2	80 - 120

Analytical Batch 455672	**Client ID**	MWQ-10		MWQ-10-DUP		
Prep Batch N/A	**GCAL ID**	21105042607		21105042610		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 14:40		05/04/2011 14:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	390	10.0	388	0.51	5

Analytical Batch 455813	**Client ID**	MB455813			LCS455813		
Prep Batch N/A	**GCAL ID**	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	**Client ID**	MW-10		944726DUP		
Prep Batch N/A	**GCAL ID**	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1480	10.0	1480	0.41	5

General Chemistry Quality Control Summary

Analytical Batch 456221	**Client ID**	MB456221			LCS456221		
Prep Batch N/A	**GCAL ID**	946613			946614		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:30			05/12/2011 15:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 456221	**Client ID**	U43010B		946472DUP		
Prep Batch N/A	**GCAL ID**	21105121901		946615		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 15:30		05/12/2011 15:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3120	10.0	3120	0.13	5

Analytical Batch 456375	**Client ID**	MB456375			LCS456375		
Prep Batch N/A	**GCAL ID**	947391			947392		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/16/2011 12:50			05/16/2011 12:50		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1060	106	80 - 120

Analytical Batch 456375	**Client ID**	MWQ-14		MWQ14-DUP		
Prep Batch N/A	**GCAL ID**	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 12:50		05/16/2011 12:50		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2670	10.0	2590	3	5

General Chemistry Quality Control Summary

Analytical Batch 456696	**Client ID**	MB456696			LCS456696		
Prep Batch N/A	**GCAL ID**	948885			948886		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 14:10			05/19/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	972	97.2	80 - 120

Analytical Batch 456696	**Client ID**	U4310B		948768DUP		
Prep Batch N/A	**GCAL ID**	21105191901		948887		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 14:10		05/19/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3730	10.0	3750	0.64	5

Analytical Batch 456780	**Client ID**	MB456780			LCS456780		
Prep Batch N/A	**GCAL ID**	949280			949281		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/20/2011 14:10			05/20/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 456780	**Client ID**	WS1		949232DUP		
Prep Batch N/A	**GCAL ID**	21105201404		949282		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/20/2011 14:10		05/20/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2620	10.0	2670	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 455671	**Client ID**	MB455671			LCS455671		
Prep Batch N/A	**GCAL ID**	944153			944154		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:48			05/04/2011 14:49		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.492	98	89.5 -110.5

Analytical Batch 455671	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:23			05/04/2011 15:24			05/04/2011 15:25			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	7.07	0.052	10.0	16.6	96	89.5 -110.5	16.7	96	0.4	25

Analytical Batch 455671	**Client ID**	SP11A417		943975DUP		
Prep Batch N/A	**GCAL ID**	21104300413		944155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 15:09		05/04/2011 15:10		
	Matrix	Water		Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.000	0	25

Analytical Batch 455673	**Client ID**	MB455673			LCS455673		
Prep Batch N/A	**GCAL ID**	944164			944165		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 15:41			05/04/2011 15:43		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.465	93	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 455673	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:51			05/04/2011 15:55			05/04/2011 15:56			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.468	94	89.5 -110.5	0.470	94	0.4	25

Analytical Batch 455673	**Client ID**	SP11A417		943975DUP		
Prep Batch N/A	**GCAL ID**	21104300413		944166		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 16:01		05/04/2011 16:03		
	Matrix	Water		Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.000	0	25

Analytical Batch 455837	**Client ID**	MB455837			LCS455837		
Prep Batch N/A	**GCAL ID**	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.498	100	89.5 -110.5

Analytical Batch 455837	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

General Chemistry Quality Control Summary

Analytical Batch 455838	**Client ID**	MB455838			LCS455838		
Prep Batch N/A	**GCAL ID**	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	ND	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 455838	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

Analytical Batch 456222	**Client ID**	MB456222			LCS456222		
Prep Batch N/A	**GCAL ID**	946662			946663		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:58			05/12/2011 15:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.469	94	89.5 -110.5

Analytical Batch 456222	**Client ID**	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	**GCAL ID**	21105042612			946664			946665			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:01			05/12/2011 16:03			05/12/2011 16:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.309	0.003	0.500	0.797	97	89.5 -110.5	0.797	97	0	25

General Chemistry Quality Control Summary

Analytical Batch 456223	**Client ID**	MB456223			LCS456223		
Prep Batch N/A	**GCAL ID**	946676			946677		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 16:16			05/12/2011 16:17		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.487	97	89.5 -110.5

Analytical Batch 456223	**Client ID**	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	**GCAL ID**	21105042612			946678			946679			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:18			05/12/2011 16:19			05/12/2011 16:21			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.011	0.003	0.500	0.502	98	89.5 -110.5	0.501	98	0.2	25

Analytical Batch 456275	**Client ID**	MB456275			LCS456275		
Prep Batch N/A	**GCAL ID**	946911			946912		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:58			05/13/2011 11:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.504	101	89.5 -110.5

Analytical Batch 456275	**Client ID**	MWQ-19			946851MS			946851MSD			
Prep Batch N/A	**GCAL ID**	21105042614			946913			946914			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/13/2011 12:02			05/13/2011 12:03			05/13/2011 12:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.472	94	89.5 -110.5	0.473	95	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456278	**Client ID**	MB456278			LCS456278		
Prep Batch N/A	**GCAL ID**	946917			946918		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 12:17			05/13/2011 12:19		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 456278	**Client ID**	MWQ-19			946851MS			946851MSD			
Prep Batch N/A	**GCAL ID**	21105042614			946919			946920			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/13/2011 12:20			05/13/2011 12:21			05/13/2011 12:22			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.007	0.003	0.500	0.547	108	89.5 -110.5	0.549	108	0.4	25

Analytical Batch 456325	**Client ID**	MB456325			LCS456325		
Prep Batch N/A	**GCAL ID**	947217			947218		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:22			05/14/2011 10:24		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.514	103	89.5 -110.5

Analytical Batch 456325	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:31			05/14/2011 10:32			05/14/2011 10:34			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	1.59	0.013	2.50	4.10	100	89.5 -110.5	4.08	100	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456326	**Client ID**	MB456326			LCS456326		
Prep Batch N/A	**GCAL ID**	947219			947220		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:44			05/14/2011 10:45		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.484	97	89.5 -110.5

Analytical Batch 456326	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:46			05/14/2011 10:48			05/14/2011 10:49			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.002	0.003	0.500	0.484	96	89.5 -110.5	0.479	95	1	25

Analytical Batch 456596	**Client ID**	MB456596			LCS456596		
Prep Batch N/A	**GCAL ID**	948435			948436		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/18/2011 16:16			05/18/2011 16:17		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.496	99	89.5 -110.5

Analytical Batch 456596	**Client ID**	MWQ-20			948204MS			948204MSD			
Prep Batch N/A	**GCAL ID**	21105042620			948437			948438			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 16:19			05/18/2011 16:41			05/18/2011 16:42			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.503	101	89.5 -110.5	0.503	101	0	25

General Chemistry Quality Control Summary

Analytical Batch 456596	**Client ID**	LCMW9W01P			948417MS			948417MSD			
Prep Batch N/A	**GCAL ID**	21105173415			948439			948440			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 16:36			05/18/2011 16:37			05/18/2011 16:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.462	92	89.5 -110.5	0.462	92	0.1	25

Analytical Batch 456597	**Client ID**	MB456597			LCS456597		
Prep Batch N/A	**GCAL ID**	948441			948442		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/18/2011 15:31			05/18/2011 15:32		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.475	95	89.5 -110.5

Analytical Batch 456597	**Client ID**	MWQ-20			948204MS			948204MSD			
Prep Batch N/A	**GCAL ID**	21105042620			948443			948444			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 15:34			05/18/2011 15:35			05/18/2011 15:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.006	0.003	0.500	0.485	96	89.5 -110.5	0.484	95	0.2	25

Analytical Batch 456715	**Client ID**	MB456715			LCS456715		
Prep Batch N/A	**GCAL ID**	948964			948965		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 15:23			05/19/2011 15:24		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.470	94	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 456715	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948966			948967			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 15:25			05/19/2011 15:26			05/19/2011 15:28			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.013	0.003	0.500	0.481	94	89.5 -110.5	0.476	93	1	25

Analytical Batch 456717	**Client ID**	MB456717			LCS456717		
Prep Batch N/A	**GCAL ID**	948972			948973		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 16:16			05/19/2011 16:18		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.495	99	89.5 -110.5

Analytical Batch 456717	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948974			948975			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 16:20			05/19/2011 16:21			05/19/2011 16:23			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.408	0.003	0.500	0.930	104	89.5 -110.5	0.918	102	1	25

General Chemistry Quality Control Summary

Analytical Batch 455977	**Client ID**	MB455977			LCS455977		
Prep Batch N/A	**GCAL ID**	945498			945499		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 09:13			05/10/2011 09:31		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.40	95.9	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.68	93.6	82 - 110

Analytical Batch 455977	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 19:35			05/10/2011 19:52			05/10/2011 20:10			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	29.3	0.420	50.0	78.1	97.6	79 - 109	80.9	103	3.5	15
14808-79-8	Sulfate	60.6	1.58	100	161	100	82 - 110	160	99.7	0.14	15

Analytical Batch 456165	**Client ID**	MB456165			LCS456165		
Prep Batch N/A	**GCAL ID**	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.05	101	82 - 110

General Chemistry Quality Control Summary

Analytical Batch 456165		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16		
		Matrix	Water			Water			Water		
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate		704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch 456395		**Client ID**	MB456395			LCS456395		
Prep Batch N/A		**GCAL ID**	947473			947474		
		Sample Type	Method Blank			LCS		
		Analytical Date	05/16/2011 18:06			05/16/2011 18:24		
		Matrix	Water			Water		
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
16887-00-6	Chloride		0.021U	0.021	2.50	2.41	96.5	79 - 109
14808-79-8	Sulfate		0.079U	0.079	5.00	5.12	102	82 - 110

Analytical Batch 456395		**Client ID**	MWQ-18			946852MS			946852MSD			
Prep Batch N/A		**GCAL ID**	21105042615			957351			957352			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	05/16/2011 21:55			05/16/2011 22:13			05/16/2011 22:30			
		Matrix	Water			Water			Water			
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		40.3	1.05	125	161	96.9	79 - 109	161	96.8	0.14	15
14808-79-8	Sulfate		110	3.95	250	365	102	82 - 110	366	102	0.025	15

General Chemistry Quality Control Summary

Analytical Batch 456669	**Client ID**	MB456669			LCS456669		
Prep Batch N/A	**GCAL ID**	948789			948790		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 17:40			05/19/2011 17:58		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.4	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.91	98.3	82 - 110

Analytical Batch 456669	**Client ID**	E16A			946542MS			946542MSD			
Prep Batch N/A	**GCAL ID**	21105122833			948791			948792			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 18:15			05/19/2011 18:33			05/19/2011 18:51			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate	76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948793			948794			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/20/2011 01:01			05/20/2011 01:18			05/20/2011 01:36			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate	216	3.95	250	470	102	82 - 110	468	101	0.49	15

General Chemistry Quality Control Summary

Analytical Batch 455687	**Client ID**	LCS455687			
Prep Batch N/A	**GCAL ID**	944291			
	Sample Type	LCS			
	Analytical Date	05/04/2011 15:38			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	203	101	80 - 120

Analytical Batch 455687	**Client ID**	MWQ-10		MWQ-10-DUP		
Prep Batch N/A	**GCAL ID**	21105042607		21105042610		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 15:38		05/04/2011 15:38		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		216	0.21	220	2	11

Analytical Batch 455965	**Client ID**	LCS455965			
Prep Batch N/A	**GCAL ID**	945466			
	Sample Type	LCS			
	Analytical Date	05/09/2011 11:15			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	206	103	80 - 120

Analytical Batch 455965	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945467		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 11:15		05/09/2011 11:15		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		69.2	0.21	70.4	2	11

General Chemistry Quality Control Summary

Analytical Batch 456175	**Client ID**	LCS456175			
Prep Batch N/A	**GCAL ID**	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456175	**Client ID**	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	**GCAL ID**	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 09:24		05/12/2011 09:24		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		169	0.21	171	0.8	11

Analytical Batch 456413	**Client ID**	LCS456413			
Prep Batch N/A	**GCAL ID**	947547			
	Sample Type	LCS			
	Analytical Date	05/16/2011 13:32			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456413	**Client ID**	MWQ-14		MWQ14-DUP		
Prep Batch N/A	**GCAL ID**	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 13:32		05/16/2011 13:32		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		133	0.21	137	3	11

General Chemistry Quality Control Summary

Analytical Batch 456595	**Client ID**	LCS456595			
Prep Batch N/A	**GCAL ID**	948433			
	Sample Type	LCS			
	Analytical Date	05/18/2011 14:07			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456595	**Client ID**	TK-471		948229DUP		
Prep Batch N/A	**GCAL ID**	21105181102		948434		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/18/2011 14:07		05/18/2011 14:07		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		308	0.21	309	0.3	11

Analytical Batch 456752	**Client ID**	LCS456752			
Prep Batch N/A	**GCAL ID**	949143			
	Sample Type	LCS			
	Analytical Date	05/20/2011 07:23			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	201	100	80 - 120

Analytical Batch 456752	**Client ID**	MWL6		948703DUP		
Prep Batch N/A	**GCAL ID**	21105190401		949144		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/20/2011 07:23		05/20/2011 07:23		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		129	0.21	133	3	11

General Chemistry Quality Control Summary

Analytical Batch 456757	**Client ID**	LCS456757	LCSD456757
Prep Batch N/A	**GCAL ID**	949156	949157
	Sample Type	LCS	LCSD
	Analytical Date	05/20/2011 07:47	05/20/2011 07:47
	Matrix	Water	Water

SM 2320B Alkalinity	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity	10.0	9.8	98	80 - 120	10.3	103	5	11

General Chemistry Quality Control Summary

Analytical Batch 455665	**Client ID**	MB455665			LCS455665		
Prep Batch N/A	**GCAL ID**	944121			944122		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:12			05/04/2011 14:13		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	493	99	80 - 120

Analytical Batch 455665	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 14:13			05/04/2011 14:14			05/04/2011 14:15			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	5.00	2.80	500	535	106	80 - 120	531	105	0.8	20

Analytical Batch 455820	**Client ID**	MB455820			LCS455820		
Prep Batch N/A	**GCAL ID**	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	**Client ID**	M114MW004			944807MS			944807MSD			
Prep Batch N/A	**GCAL ID**	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	453	91	80 - 120	457	91	0.9	20

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Analytical Batch 456171	**Client ID**	MB456171			LCS456171		
Prep Batch N/A	**GCAL ID**	946326			946327		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 10:37			05/12/2011 10:38		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	455	91	80 - 120

Analytical Batch 456171	**Client ID**	MWQ-22			946321MS		
Prep Batch N/A	**GCAL ID**	21105042612			946328		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/12/2011 10:39			05/12/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	502	100	80 - 120

Analytical Batch 456171	**Client ID**	MWQ-22		946321DUP		
Prep Batch N/A	**GCAL ID**	21105042612		946329		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 10:39		05/12/2011 10:40		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456272	**Client ID**	MB456272			LCS456272		
Prep Batch N/A	**GCAL ID**	946901			946902		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:02			05/13/2011 11:02		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	506	101	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456272	**Client ID**	MWQ-18			946852MS		
Prep Batch N/A	**GCAL ID**	21105042615			946904		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/13/2011 11:05			05/13/2011 11:06		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	475	95	80 - 120

Analytical Batch 456272	**Client ID**	MWQ-18		946852DUP		
Prep Batch N/A	**GCAL ID**	21105042615		946903		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/13/2011 11:05		05/13/2011 11:05		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456327	**Client ID**	MB456327			LCS456327		
Prep Batch N/A	**GCAL ID**	947221			947222		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:39			05/14/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456327	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:40			05/14/2011 10:40			05/14/2011 10:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	418	84	80 - 120	426	85	2	20

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Analytical Batch 456557	**Client ID**	MB456557	LCS456557
Prep Batch N/A	**GCAL ID**	948220	948221
	Sample Type	Method Blank	LCS
	Analytical Date	05/18/2011 10:14	05/18/2011 10:15
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	545	109	80 - 120

Analytical Batch 456557	**Client ID**	MWQ-20	948204MS
Prep Batch N/A	**GCAL ID**	21105042620	948223
	Sample Type	SAMPLE	MS
	Analytical Date	05/18/2011 10:16	05/18/2011 10:16
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	555	111	80 - 120

Analytical Batch 456557	**Client ID**	MWQ-20	948204DUP
Prep Batch N/A	**GCAL ID**	21105042620	948222
	Sample Type	SAMPLE	DUP
	Analytical Date	05/18/2011 10:16	05/18/2011 10:16
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456663	**Client ID**	MB456663	LCS456663
Prep Batch N/A	**GCAL ID**	948723	948724
	Sample Type	Method Blank	LCS
	Analytical Date	05/19/2011 10:07	05/19/2011 10:08
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	499	100	80 - 120

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Analytical Batch 456663	**Client ID**	MWL6			948703MS		
Prep Batch N/A	**GCAL ID**	21105190401			948726		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/19/2011 10:09			05/19/2011 10:10		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	496	99	80 - 120

Analytical Batch 456663	**Client ID**	MWL6		948703DUP		
Prep Batch N/A	**GCAL ID**	21105190401		948725		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 10:09		05/19/2011 10:09		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

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Analytical Batch	455832	**Client ID**	MB455725		LCS455725		
Prep Batch	455725	**GCAL ID**	944419		944420		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/06/2011 09:00		05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03		05/06/2011 14:04		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.020	0.017	82.5	80 - 120

Analytical Batch	455832	**Client ID**	MB455725		LCSHI455725		
Prep Batch	455725	**GCAL ID**	944419		944421		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCSHI		
		Prep Date	05/06/2011 09:00		05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03		05/06/2011 14:05		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.10	0.083	83.3	80 - 120

Analytical Batch	455832	**Client ID**	MWQ-10		MWQ-10-MS			MWQ-10-MSD				
Prep Batch	455725	**GCAL ID**	21105042607		21105042608			21105042609				
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS			MSD				
		Prep Date	05/06/2011 09:00		05/06/2011 09:00			05/06/2011 09:00				
		Analytical Date	05/06/2011 14:14		05/06/2011 14:15			05/06/2011 14:16				
		Matrix	Water		Water			Water				
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0375	**75.0***	80 - 120	0.0376	**75.0***	0.30	20	

General Chemistry Quality Control Summary

Analytical Batch	456300	**Client ID**	MB455936			LCS455936		
Prep Batch	455936	**GCAL ID**	945393			945394		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 16:08		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.021	107	80 - 120

Analytical Batch	456300	**Client ID**	MB455936			LCSHI455936		
Prep Batch	455936	**GCAL ID**	945393			945395		
Prep Method	SW-846	**Sample Type**	Method Blank			LCSHI		
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 17:15		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.12	117	80 - 120

Analytical Batch	456300	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455936	**GCAL ID**	21105060810			21105060811			21105060812			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/13/2011 16:22			05/13/2011 16:23			05/13/2011 16:24			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0	0.00055	0.050	0.047	94.6	80 - 120	0.048	96.2	1.7	20

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MB456439			LCS456439		
Prep Batch	456439	**GCAL ID**	947658			947659		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:51		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.018	88.0	80 - 120

Analytical Batch	456904	**Client ID**	MB456439			LCSHI456439		
Prep Batch	456439	**GCAL ID**	947658			947660		
Prep Method	SW-846	**Sample Type**	Method Blank			LCSHI		
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:52		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.087	87.2	80 - 120

Analytical Batch	456904	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	**GCAL ID**	21105042616			21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59			05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0	0.0006	0.050	0.0396	**79.0***	80 - 120	0.0398	80.0	0.50	20

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MWQ-14	947214DUP
Prep Batch	456439	**GCAL ID**	21105042616	947661
Prep Method	SW-846	**Sample Type**	SAMPLE	DUP
	9012A	**Prep Date**	05/19/2011 16:30	05/19/2011 16:30
		Analytical Date	05/23/2011 10:59	05/23/2011 11:00
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
57-12-5	Total Cyanide	0.0	0.0006	0.0	0.0	25

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	2105042E	5/11

Report to:
Client: Trinity
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Alkalinity/TDS	Remote rate	Cyanide (Total/Amb)	Hexavalent Chromium	CL/SO4/NO3/NO2	Total Metals (Total HNO3)	Dissolved Metals (Total HNO3)				Remarks:	Lab ID
GW	5/3/11	0915		X	MWQ-3		7	X	X	X	X	X	X	X					1
GW	5/3/11	1018		X	MWQ-4		7	X	X	X	X	X	X	X					2
GW	5/3/11	1157		X	MWQ-5		7	X	X	X	X	X	X	X					3
GW	5/3/11	1157		X	MWQ-5-Dup		7	X	X	X	X	X	X	X					4
GW	5/3/11	1312		X	MWQ-6		7	X	X	X	X	X	X	X					5
GW	5/3/11	1353		X	MWQ-7		7	X	X	X	X	X	X	X					6
GW	5/3/11	1523		X	MWQ-10		7	X	X	X	X	X	X	X					7
GW	5/3/11	1523		X	MWQ-10-MS		7	X	X	X	X	X	X	X					8
GW	5/3/11	1523		X	MWQ-10-MSD		7	X	X	X	X	X	X	X					9 10

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Foley	Received by: (Signature)	Date: 5-4-11	Time: 9:45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SDG: Annual

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050426	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MW02		7	X		X	X	X	X	X		X			* 11	~~13~~ 1
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X				~~14~~ 2
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X				~~15~~ 3
	5/5/11	926			TB1		3													~~16~~ 4
	5/5/11	926			TB2		3													~~17~~ 5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Date: 5-6-11	Time: 900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample is in the outside on

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	11050426	5/11/11

Report to:
Client: Trinity ADL
Address: 90NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Wellrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT/TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X					12	
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X					13	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	5/12/11	1500
FedEx	[signature]	5/12/11	0155

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SO = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Trinity (Client Name)	4747	2110504 26	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy IMA
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT/TS	Cl/SO4/NO3/NO2				Remarks:	Lab ID
GW	5/12/11	950		x	MWQ19		7	x	x	x	x	x	x	x				14	/
GW	5/12/11	1240		x	MWQ18		7		x	x	x	x	x	x				15	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/12/11	1500
Fedex	[signature]	05/13/11	0920

Note: Extra volume labled "Field Filtered". This was not filtered, lab needs to filter. MWQ18

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Boca Raton Pkwy Rd
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 352 243 6072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Metrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALKT/TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/13/11	1231		X	MWQ14		7	X	X	X	X	X	X	X					16	
GW	5/13/11	1231		X	MWQ14-MS		7	X	X	X	X	X	X	X					17	
GW	5/13/11	1231		X	MWQ14-MSD		7	X	X	X	X	X	X	X					18	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/13/11	1408
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	2110504726	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ad
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	Perchlorate	(+VI)	Cyanide ($NaOH$)	ALKTTS	CL/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/17/11	1322		X	MWQ-20		7	X	X	X	X	X	X	X					19	
GW	5/17/11	1322		X	MWQ-20-Dup		7	X	X	X	X	X	X	X					20	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	5/17/11	1600
Fed Ex	[signature]	5/18/11	0845

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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GCAL-06 11/98

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Trinity (Client Name)	4747	211058426	

Report to:
Client: Trinity AOC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL, 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

Analytical Requests & Method: Dissolved Metals (HNO3), Total Metals (HNO3), Cyanide (NaOH), Perchlorate, CrVI, ALK/T/TS, CL/SO4/NO3/NO2

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK/T/TS	CL/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/18/11	1450		V	MWL6		7									1
W	5/18/11	1030		x	EB2		7								21	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	1600
[signature]	[signature]	5/19/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050426

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Raborn, Michelle

Received Date/Time: 5/4/2011 9:45:00 AM

Samples Received via: WET

Number of Coolers Received: 7

Cooler tracking numbers(s): 8735 2663 9247 , 8735 2663 9203 , 8735 2663 9225 , 8735 2663 8939 , 8735 2663 9247 , 8735 2663 9155 , 8735 2663 9166

Cooler temperature(s): Various noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☑ Yes	☐ No	☐ N/A

Containers preserved at the laboratory: 21105042615-4(L-HNO3)

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times on COC

June 03, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1105192

TEL: (225) 769-4900
FAX: (225) 767-5717

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 17 sample(s) on 5/20/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
09	W	5/11/11	1101		X	21105042612			X	MWQ22	
10	W	5/11/11	1305		X	21105042613			X	MWQ21	
11	W	5/12/11	0905		X	21105042614			X	MWQ 19	
12	W	5/13/11	1240		X	21105042615			X	MWQ 18	
13	W	5/13/11	1231		X	21105042616			X	MWQ14	
13	W	5/13/11	1231		X	21105042617 MS OF 2616			X	MWQ14 MS	
13	W	5/13/11	1231		X	21105042618 MSD OF 2616			X	MWQ14 MSD	
14	W	5/17/11	1322		X	21105042620			X	MWQ-20	
15	W	5/17/11	1322		X	21105042621			X	MWQ-20 DUP	
16	W	5/18/11	1430		X	21105190401			X	MWL6	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7°
Please fax results to (225)769-4900 Item #57
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

Analysis Requested

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/3/11	0915		X	21105042601			X	MWQ-3	
02	W	5/3/11	1018		X	21105042602			X	MWQ-4	
03	W	5/3/11	1157		X	21105042603			X	MWQ-5	
04	W	5/3/11	1157		X	21105042604			X	MWQ-5-DUP	
05	W	5/3/11	1312		X	21105042605			X	MWQ-6	
06	W	5/3/11	1353		X	21105042606			X	MWQ-7	
07	W	5/3/11	1523		X	21105042607			X	MWQ-10	
07	W	5/3/11	1523		X	21105042608 MS OF 2607			X	MWQ-10-MS	
07	W	5/3/11	1523		X	21105042609 MSD OF 2607			X	MWQ-10-MSD	
08	W	5/5/11	0926		X	21105042611			X	MWQ2	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7 Therm #57

Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

Chain of Custody Record

1105192

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0456

Project Name/Number: 211050426

Sampled By: 4747

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
17	W	5/18/11	1030		X	21105042622			X	EB2	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7° 2 Perm HS7

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

From: (225) 769-4900
Michelle Rabom

7979 GSRI Ave

Baton Rouge, LA 70820

Origin ID: OPLA

FedEx Express

E

J1151102240225

Ship Date: 19MAY11
ActWgt: 40.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222
JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

BILL SENDER

Ref #
Invoice #
PO #
Dept #

FRI - 20 MAY A1
PRIORITY OVERNIGHT

TRK# 7947 7896 9810
0201

78664
TX-US
AUS

A8 BSMA

500GUSF/FFB

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 5/20/2011

Work Order Number 1105192

Received by JB

Checklist completed by: JBaker (Signature) 5/20/11 (Date)

Reviewed by SS (Initials) 5-20-11 (Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted GCAL Date contacted: 5/20/11 Person contacted Dana Merrill

Contacted by: JBaker Regarding: COC unsigned

Comments: COC was unsigned when samples arrived. Client emailed COC signed and dated.

Corrective Action Copy of COC included in work order.

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

06/03/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	O!	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	O!	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	O!	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	O!	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	O!	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	O!	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	O!	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	O!	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	O!	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	O!	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: ICMS-110526A

ICAL Folder: ICMS_ClO4-101118

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst 6/1/11 Date

2nd Level Review 6-1-2011 Date

Manual Integrations Tracking Form_ICMS_110526A

Initial Calibration Summary

Control Program:	ClO4PGM_101118
Quantif. Method:	ClO4_101118
Recording Time:	5/26/2011 13:16
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	766.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893

6/1/11
CH

Internal Standard Summary

Sequence Name:	**110526_CLO4**
Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.510~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

6/1/11

1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11
SD

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/20/11. A total of 17 samples were received and all were analyzed. The Chain-of-Custody (COC) was not signed by the client when the samples arrived at DHL Analytical. The client emailed a signed copy of the COC. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Perchlorate analysis performed on 5/26/11 the matrix spike duplicate was above control limits. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the high conductivity of the samples. The samples are: 21105042611, 21105042614, 21105042615, and 21105190401. Samples 21105042620 and 21105042621 were further prepared with a smaller volume of 10 ml for final analysis.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 11 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/20/11. Sample summary sent via email from Log-in to client on 5/20/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105192-01	21105042601		05/03/11 09:15 AM	05/20/11
1105192-02	21105042602		05/03/11 10:18 AM	05/20/11
1105192-03	21105042603		05/03/11 11:57 AM	05/20/11
1105192-04	21105042604		05/03/11 11:57 AM	05/20/11
1105192-05	21105042605		05/03/11 01:12 PM	05/20/11
1105192-06	21105042606		05/03/11 01:53 PM	05/20/11
1105192-07	21105042607		05/03/11 03:23 PM	05/20/11
1105192-08	21105042611		05/05/11 09:26 AM	05/20/11
1105192-09	21105042612		05/11/11 11:01 AM	05/20/11
1105192-10	21105042613		05/11/11 01:05 PM	05/20/11
1105192-11	21105042614		05/12/11 09:05 AM	05/20/11
1105192-12	21105042615		05/13/11 12:40 PM	05/20/11
1105192-13	21105042616		05/13/11 12:31 PM	05/20/11
1105192-14	21105042620		05/17/11 01:22 PM	05/20/11
1105192-15	21105042621		05/17/11 01:22 PM	05/20/11
1105192-16	21105190401		05/18/11 02:30 PM	05/20/11
1105192-17	21105042622		05/18/11 10:30 AM	05/20/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105192-01A	21105042601	05/03/11 09:15 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-02A	21105042602	05/03/11 10:18 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-03A	21105042603	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-04A	21105042604	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-05A	21105042605	05/03/11 01:12 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-06A	21105042606	05/03/11 01:53 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-07A	21105042607	05/03/11 03:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-08A	21105042611	05/05/11 09:26 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-09A	21105042612	05/11/11 11:01 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-10A	21105042613	05/11/11 01:05 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-11A	21105042614	05/12/11 09:05 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-12A	21105042615	05/13/11 12:40 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-13A	21105042616	05/13/11 12:31 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-14A	21105042620	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-15A	21105042621	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-16A	21105190401	05/18/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-17A	21105042622	05/18/11 10:30 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105192-01A	21105042601	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:07 PM	ICMS_110526A
1105192-02A	21105042602	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:25 PM	ICMS_110526A
1105192-03A	21105042603	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:43 PM	ICMS_110526A
1105192-04A	21105042604	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:00 PM	ICMS_110526A
1105192-05A	21105042605	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:18 PM	ICMS_110526A
1105192-06A	21105042606	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:36 PM	ICMS_110526A
1105192-07A	21105042607	Aqueous	SW6860	Perchlorate - Water	46519	1	05/26/11 08:53 PM	ICMS_110526A
1105192-08A	21105042611	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:54 PM	ICMS_110526A
1105192-09A	21105042612	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:11 PM	ICMS_110526A
1105192-10A	21105042613	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:29 PM	ICMS_110526A
1105192-11A	21105042614	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:47 PM	ICMS_110526A
1105192-12A	21105042615	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:24 AM	ICMS_110526A
1105192-13A	21105042616	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:52 PM	ICMS_110526A
1105192-14A	21105042620	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:42 AM	ICMS_110526A
1105192-15A	21105042621	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:59 AM	ICMS_110526A
1105192-16A	21105190401	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:17 PM	ICMS_110526A
1105192-17A	21105042622	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:35 PM	ICMS_110526A

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042601
Project:	DoD Perchlorate	**Lab ID:**	1105192-01
Project No:	211050426	**Collection Date:**	05/03/11 09:15 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00731	0.000100	0.000300	N	mg/L	1	05/27/11 12:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042602
Project:	DoD Perchlorate	**Lab ID:**	1105192-02
Project No:	211050426	**Collection Date:**	05/03/11 10:18 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00308	0.000100	0.000300	N	mg/L	1	05/27/11 12:25 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042603
Project:	DoD Perchlorate	**Lab ID:**	1105192-03
Project No:	211050426	**Collection Date:**	05/03/11 11:57 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00300	0.000100	0.000300	N	mg/L	1	05/27/11 12:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042604
Project:	DoD Perchlorate	**Lab ID:**	1105192-04
Project No:	211050426	**Collection Date:**	05/03/11 11:57 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00306	0.000100	0.000300	N	mg/L	1	05/27/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042605
Project:	DoD Perchlorate	**Lab ID:**	1105192-05
Project No:	211050426	**Collection Date:**	05/03/11 01:12 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00398	0.000100	0.000300	N	mg/L	1	05/27/11 01:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042606
Project:	DoD Perchlorate	**Lab ID:**	1105192-06
Project No:	211050426	**Collection Date:**	05/03/11 01:53 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00584	0.000100	0.000300	N	mg/L	1	05/27/11 01:36 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042607
Project:	DoD Perchlorate	**Lab ID:**	1105192-07
Project No:	211050426	**Collection Date:**	05/03/11 03:23 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000530	0.000100	0.000300	N	mg/L	1	05/26/11 08:53 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042611
Project:	DoD Perchlorate	**Lab ID:**	1105192-08
Project No:	211050426	**Collection Date:**	05/05/11 09:26 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 01:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042612
Project:	DoD Perchlorate	**Lab ID:**	1105192-09
Project No:	211050426	**Collection Date:**	05/11/11 11:01 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00148	0.000100	0.000300	N	mg/L	1	05/27/11 02:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042613
Project:	DoD Perchlorate	**Lab ID:**	1105192-10
Project No:	211050426	**Collection Date:**	05/11/11 01:05 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00827	0.000100	0.000300	N	mg/L	1	05/27/11 02:29 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042614
Project:	DoD Perchlorate	**Lab ID:**	1105192-11
Project No:	211050426	**Collection Date:**	05/12/11 09:05 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 02:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042615
Project:	DoD Perchlorate	**Lab ID:**	1105192-12
Project No:	211050426	**Collection Date:**	05/13/11 12:40 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0108	0.000198	0.000594	N	mg/L	1	05/31/11 11:24 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042616
Project:	DoD Perchlorate	**Lab ID:**	1105192-13
Project No:	211050426	**Collection Date:**	05/13/11 12:31 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00452	0.000100	0.000300	N	mg/L	1	05/31/11 12:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042620
Project:	DoD Perchlorate	**Lab ID:**	1105192-14
Project No:	211050426	**Collection Date:**	05/17/11 01:22 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:42 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042621
Project:	DoD Perchlorate	**Lab ID:**	1105192-15
Project No:	211050426	**Collection Date:**	05/17/11 01:22 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:59 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105190401
Project:	DoD Perchlorate	**Lab ID:**	1105192-16
Project No:	211050426	**Collection Date:**	05/18/11 02:30 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00994	0.000198	0.000594	N	mg/L	1	05/31/11 12:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042622
Project:	DoD Perchlorate	**Lab ID:**	1105192-17
Project No:	211050426	**Collection Date:**	05/18/11 10:30 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	05/31/11 12:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	1105192-07AMS	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 09:11 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000876	0.000300	0.000300	0.000530	115	85	115			N

Sample ID:	1105192-07AMSD	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 09:28 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000807	0.000300	0.000300	0.000530	92.4	85	115	8.19	20	N

Sample ID:	LCS-46519	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	LCS	Run ID:	ICMS_110526A		Analysis Date:	05/27/11 11:32 AM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000336	0.000300	0.000300	0	112	85	115			N

Sample ID:	MB-46519	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MBLK	Run ID:	ICMS_110526A		Analysis Date:	05/27/11 11:50 AM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1105192-13AMS	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 01:10 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00485	0.000300	0.000300	0.00452	111	85	115			N

Sample ID:	1105192-13AMSD	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 01:28 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.000300	0.000300	0.00452	136	85	115	1.51	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000220	0.000300	0.000200	0	110	70	130			N

Sample ID:	ICV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00202	0.000300	0.00200	0	101	85	115			N

Sample ID:	ICS1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000261	0.000300	0.000300	0	87.1	85	115			N

Sample ID:	CCV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00506	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000227	0.000300	0.000200	0	114	70	130			N

Sample ID:	CCV2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 09:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00493	0.000300	0.00500	0	98.6	85	115			N

Sample ID:	LCVL3-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 10:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000257	0.000300	0.000200	0	129	70	130			N

Sample ID:	LCVL1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000196	0.000300	0.000200	0	98.2	70	130			N

Sample ID:	ICV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00200	0.000300	0.00200	0	100	85	115			N

Sample ID:	ICS1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 11:14 AM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:04 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:22 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:31 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:48 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 11:06 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 01:45 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 02:03 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:23 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:41 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105192-07A	21105042607	SW6860	46519	1	05/26/11 08:53 PM	05/26/11
1105192-07AMS	21105042607MS	SW6860	46519	1	05/26/11 09:11 PM	05/26/11
1105192-07AMSD	21105042607MSD	SW6860	46519	1	05/26/11 09:28 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
LCS-46519	-----	SW6860	46519	1	05/27/11 11:32 AM	05/26/11
MB-46519	-----	SW6860	46519	1	05/27/11 11:50 AM	05/26/11
1105192-01A	21105042601	SW6860	46519	1	05/27/11 12:07 PM	05/26/11
1105192-02A	21105042602	SW6860	46519	1	05/27/11 12:25 PM	05/26/11
1105192-03A	21105042603	SW6860	46519	1	05/27/11 12:43 PM	05/26/11
1105192-04A	21105042604	SW6860	46519	1	05/27/11 01:00 PM	05/26/11
1105192-05A	21105042605	SW6860	46519	1	05/27/11 01:18 PM	05/26/11
1105192-06A	21105042606	SW6860	46519	1	05/27/11 01:36 PM	05/26/11
1105192-08A	21105042611	SW6860	46519	1	05/27/11 01:54 PM	05/26/11
1105192-09A	21105042612	SW6860	46519	1	05/27/11 02:11 PM	05/26/11
1105192-10A	21105042613	SW6860	46519	1	05/27/11 02:29 PM	05/26/11
1105192-11A	21105042614	SW6860	46519	1	05/27/11 02:47 PM	05/26/11
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
1105192-12A	21105042615	SW6860	46519	1	05/31/11 11:24 AM	05/26/11
1105192-14A	21105042620	SW6860	46519	1	05/31/11 11:42 AM	05/26/11
1105192-15A	21105042621	SW6860	46519	1	05/31/11 11:59 AM	05/26/11

DHL Analytical

Date: 06/03/11

Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1105192-16A	21105190401	SW6860	46519	1	05/31/11 12:17 PM	05/26/11
1105192-17A	21105042622	SW6860	46519	1	05/31/11 12:35 PM	05/26/11
1105192-13A	21105042616	SW6860	46519	1	05/31/11 12:52 PM	05/26/11
1105192-13AMS	21105042616MS	SW6860	46519	1	05/31/11 01:10 PM	05/26/11
1105192-13AMSD	21105042616MSD	SW6860	46519	1	05/31/11 01:28 PM	05/26/11
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 02/11/2013

GCAL Report 211050608

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose AFB Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050608

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q - LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, the %D is outside ±20% for Acetone (23) in the CCV (MSV11, 05/11/11).

In the SW-846 8260B analysis for analytical batch 456001, Acetone was detected at a concentration > ½ the RL in the method blank and is therefore flagged B on the form 1s for the associated samples. The concentration is acceptable at < RL for this common lab contaminant.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis for prep batch 455907, the MS/MSD exhibited numerous recovery failures above the upper control limits. All LCS/LCSD recoveries are acceptable with the exception of recoveries below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis prep batch 456236, the LCS/LCSD recoveries are below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis, the recovery for HMX is outside the control limits in the ICV (HPLC2 05/11/11).

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C dissolved and total analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium on ICP6, 05/25/11 at 1921. The data is reported

with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C Dissolved analysis for prep batch 456484, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2147. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2215. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456553, the MS/MSD recoveries are not applicable for Calcium, Sodium, and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2315. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2326. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (IC6, 05/20/11; 2139, 2307, 0037) is greater than the LOD but less than the PQL. The concentrations are insignificant as compared to the concentration detected in the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21105060801 (MA02MW001D), 21105060802 (M114MW004), 21105060805 (M114MW002), 21105060807 (M114MW003), 21105060810 (MA01MW001), 21105060811 (MA01MW001-MS), 21105060812 (MA01MW001-MSD), 21105060815 (M114MW001), 21105060816 (M114MW001-DUP), 21105060818 (MAOMW004), 21105060819 (MAOMW003), 21105170901 (MAO1MW002) and 21105170902 (MWQ23) had to be diluted in order to bracket the concentration of the target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21105060801 (MA02MW001D), 21105060815 (M114MW001), and 21105060816 (M114MW001-DUP) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite.

In the SW-846 9012A analysis for prep batch 456439, the MS recovery is outside the control limits for Total Cyanide. All other batch QC is acceptable.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105060818 (MAOMW004) and 21105060819 (MAOMW003) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

An aliquot of samples 21105060802 (M114MW004) and 21105170902 (MWQ23) had to be filtered and preserved at the laboratory for dissolved metals.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211050608

THIS REPORT CONTAINS 225 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10
21105060803	TB1	Water	05/05/2011 09:26	05/06/2011 09:10
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57
21105060808	TB4	Water	05/06/2011 00:00	05/07/2011 08:57
21105060809	TB5	Water	05/06/2011 00:00	05/07/2011 08:57
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50
21105060813	MA01MW001-DUP	Water	05/09/2011 14:16	05/10/2011 08:50
21105060814	TB6	Water	05/09/2011 00:00	05/10/2011 08:50
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25
21105060817	TB8	Water	05/10/2011 00:00	05/11/2011 07:25
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45
21105060820	TB7	Water	05/10/2011 00:00	05/11/2011 08:45
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00
21105170903	TB9	Water	05/16/2011 00:00	05/17/2011 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2190	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	5.99J	10.0	2.53	ug/L
7440-39-3	Barium	12.7	10.0	0.11	ug/L
7440-70-2	Calcium	127000	100	50.0	ug/L
7440-47-3	Chromium	1.46J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.46J	10.0	1.00	ug/L
7440-50-8	Copper	116	10.0	1.37	ug/L
7439-95-4	Magnesium	73500	100	50.0	ug/L
7439-96-5	Manganese	208	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.5J	50.0	3.75	ug/L
7440-02-0	Nickel	1.44J	40.0	0.96	ug/L
7440-09-7	Potassium	10300	500	100	ug/L
7782-49-2	Selenium	107	40.0	4.34	ug/L
7440-62-2	Vanadium	66.2	20.0	3.75	ug/L
7440-66-6	Zinc	128	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1910000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	79.6J	200	60.0	ug/L
7440-70-2	Calcium	127000	100	50.0	ug/L
7440-47-3	Chromium	2.52J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.52J	10.0	1.00	ug/L
7440-50-8	Copper	226	10.0	1.37	ug/L
7439-95-4	Magnesium	71800	100	50.0	ug/L
7439-96-5	Manganese	248	15.0	2.00	ug/L
7439-98-7	Molybdenum	18.1J	50.0	3.75	ug/L
7440-02-0	Nickel	1.31J	40.0	0.96	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7782-49-2	Selenium	94.7	40.0	4.34	ug/L
7440-62-2	Vanadium	69.9	20.0	3.75	ug/L
7440-66-6	Zinc	129	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1930000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	19.8	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004J	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6290	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	130	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.56	0.050	0.013	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	16.0	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4180	100	21.0	mg/L
14808-79-8	Sulfate	2110	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.35B	5.00	0.20	ug/L
7440-70-2	Calcium	326000	100	50.0	ug/L
7440-47-3	Chromium	5.33B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.33B	10.0	1.00	ug/L
7440-50-8	Copper	36.9	10.0	1.37	ug/L
7439-95-4	Magnesium	285000	100	50.0	ug/L
7439-96-5	Manganese	5.27B	15.0	2.00	ug/L
7439-98-7	Molybdenum	12.5B	50.0	3.75	ug/L
7440-09-7	Potassium	20300	500	100	ug/L
7782-49-2	Selenium	19.6B	40.0	4.34	ug/L
7440-62-2	Vanadium	74.9	20.0	3.75	ug/L
7440-66-6	Zinc	655	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.8	10.0	0.11	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.6	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.900	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	12.4	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.59B	60.0	4.03	ug/L
7440-38-2	Arsenic	4.01B	10.0	2.53	ug/L
7440-39-3	Barium	17.8	10.0	0.11	ug/L
7440-43-9	Cadmium	0.90B	5.00	0.20	ug/L
7440-70-2	Calcium	338000	100	50.0	ug/L
7440-47-3	Chromium	4.02B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	4.02B	10.0	1.00	ug/L
7440-50-8	Copper	35.2	10.0	1.37	ug/L
7439-95-4	Magnesium	295000	100	50.0	ug/L
7439-96-5	Manganese	3.11B	15.0	2.00	ug/L
7439-98-7	Molybdenum	13.0B	50.0	3.75	ug/L
7440-09-7	Potassium	20600	500	100	ug/L
7782-49-2	Selenium	18.9B	40.0	4.34	ug/L
7440-62-2	Vanadium	68.9	20.0	3.75	ug/L
7440-66-6	Zinc	653	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2240000	25000	5000	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7000	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.51J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3660	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	78.8B	200	60.0	ug/L
7440-70-2	Calcium	252000	100	50.0	ug/L
7440-47-3	Chromium	8.55B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	8.55B	10.0	1.00	ug/L
7440-50-8	Copper	29.8	10.0	1.37	ug/L
7439-89-6	Iron	160	100	40.0	ug/L
7439-95-4	Magnesium	238000	100	50.0	ug/L
7439-96-5	Manganese	9.22B	15.0	2.00	ug/L
7439-98-7	Molybdenum	20.5B	50.0	3.75	ug/L
7440-02-0	Nickel	27.0B	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	20.0B	40.0	4.34	ug/L
7440-62-2	Vanadium	81.0	20.0	3.75	ug/L
7440-66-6	Zinc	175	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2040000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.9	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	17.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.69B	5.00	0.20	ug/L
7440-70-2	Calcium	257000	100	50.0	ug/L
7440-47-3	Chromium	5.75B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.75B	10.0	1.00	ug/L
7440-50-8	Copper	25.1	10.0	1.37	ug/L
7439-95-4	Magnesium	244000	100	50.0	ug/L
7439-98-7	Molybdenum	20.5B	50.0	3.75	ug/L
7440-02-0	Nickel	26.2B	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	21.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	74.3	20.0	3.75	ug/L
7440-66-6	Zinc	163	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2020000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.375	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7800	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	69.2	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	16.3	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.111	0.100	0.021	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	81.2B	100	50.0	ug/L
7440-50-8	Copper	5.31B	10.0	1.37	ug/L
7439-96-5	Manganese	3.46B	15.0	2.00	ug/L
7440-09-7	Potassium	166B	500	100	ug/L
7440-66-6	Zinc	7.09B	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.49B	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	199B	200	60.0	ug/L
7440-38-2	Arsenic	2.57B	10.0	2.53	ug/L
7440-39-3	Barium	3.53B	10.0	0.11	ug/L
7440-43-9	Cadmium	0.25B	5.00	0.20	ug/L
7440-50-8	Copper	10.3	10.0	1.37	ug/L
7440-09-7	Potassium	142B	500	100	ug/L
7440-66-6	Zinc	10.3B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	547	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	22.0	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	3.54J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4550	100	21.0	mg/L
14808-79-8	Sulfate	2460	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	67.3B	200	60.0	ug/L
7440-39-3	Barium	14.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.81B	5.00	0.20	ug/L
7440-70-2	Calcium	342000	100	50.0	ug/L
7440-47-3	Chromium	3.89B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.89B	10.0	1.00	ug/L
7440-50-8	Copper	22.0	10.0	1.37	ug/L
7439-95-4	Magnesium	271000	100	50.0	ug/L
7439-98-7	Molybdenum	8.48B	50.0	3.75	ug/L
7440-09-7	Potassium	19700	500	100	ug/L
7782-49-2	Selenium	31.5B	40.0	4.34	ug/L
7440-62-2	Vanadium	76.2	20.0	3.75	ug/L
7440-66-6	Zinc	14.2B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2550000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	63.6B	200	60.0	ug/L
7440-70-2	Calcium	342000	100	50.0	ug/L
7440-47-3	Chromium	6.04B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	6.04B	10.0	1.00	ug/L
7440-50-8	Copper	23.7	10.0	1.37	ug/L
7439-89-6	Iron	130	100	40.0	ug/L
7439-95-4	Magnesium	270000	100	50.0	ug/L
7439-96-5	Manganese	7.83B	15.0	2.00	ug/L
7439-98-7	Molybdenum	8.07B	50.0	3.75	ug/L
7440-09-7	Potassium	19800	500	100	ug/L
7782-49-2	Selenium	30.7B	40.0	4.34	ug/L
7440-62-2	Vanadium	79.7	20.0	3.75	ug/L
7440-66-6	Zinc	17.5B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2620000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	20.9	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.719	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	44.5	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	4.55	1	0.078	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9540	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	3.22J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	651	50.0	10.5	mg/L
14808-79-8	Sulfate	704	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	105B	200	60.0	ug/L
7440-39-3	Barium	18.0	10.0	0.11	ug/L
7440-70-2	Calcium	50800	100	50.0	ug/L
7440-47-3	Chromium	2.24B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.24B	10.0	1.00	ug/L
7440-50-8	Copper	13.4	10.0	1.37	ug/L
7439-89-6	Iron	46.6B	100	40.0	ug/L
7439-95-4	Magnesium	50100	100	50.0	ug/L
7439-96-5	Manganese	2.16B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.66B	50.0	3.75	ug/L
7440-09-7	Potassium	7880	500	100	ug/L
7440-32-6	Titanium	1.53B	100	1.20	ug/L
7440-62-2	Vanadium	58.3	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	588000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	276	200	60.0	ug/L
7440-70-2	Calcium	49700	100	50.0	ug/L
7440-47-3	Chromium	8.54B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	8.54B	10.0	1.00	ug/L
7440-50-8	Copper	14.3	10.0	1.37	ug/L
7439-89-6	Iron	204	100	40.0	ug/L
7439-95-4	Magnesium	48700	100	50.0	ug/L
7439-96-5	Manganese	12.6B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.94B	50.0	3.75	ug/L
7440-02-0	Nickel	2.96B	40.0	0.96	ug/L
7440-09-7	Potassium	7780	500	100	ug/L
7440-32-6	Titanium	3.16B	100	1.20	ug/L
7440-62-2	Vanadium	61.1	20.0	3.75	ug/L
7440-66-6	Zinc	2.74B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	567000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	27.8	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.233	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1980	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	6.28	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0473	0.0050	0.0006	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1900	50.0	10.5	mg/L
14808-79-8	Sulfate	3260	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.66	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5040	200	60.0	ug/L
7440-36-0	Antimony	535	60.0	4.03	ug/L
7440-38-2	Arsenic	552	10.0	2.53	ug/L
7440-39-3	Barium	524	10.0	0.11	ug/L
7440-41-7	Beryllium	522	5.00	0.11	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-70-2	Calcium	56100	100	50.0	ug/L
7440-47-3	Chromium	498	10.0	1.00	ug/L
7440-48-4	Cobalt	512	10.0	1.00	ug/L
7440-50-8	Copper	535	10.0	1.37	ug/L
7439-89-6	Iron	5030	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	54200	100	50.0	ug/L
7439-96-5	Manganese	515	15.0	2.00	ug/L
7439-98-7	Molybdenum	526	50.0	3.75	ug/L
7440-02-0	Nickel	507	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	540	40.0	4.34	ug/L
7440-22-4	Silver	518	10.0	0.60	ug/L
7440-28-0	Thallium	498	20.0	1.75	ug/L
7440-32-6	Titanium	507	100	1.20	ug/L
7440-62-2	Vanadium	581	20.0	3.75	ug/L
7440-66-6	Zinc	532	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	620000	5000	1000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.78	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5230	200	60.0	ug/L
7440-36-0	Antimony	515	60.0	4.03	ug/L
7440-38-2	Arsenic	517	10.0	2.53	ug/L
7440-41-7	Beryllium	496	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	54200	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	496	10.0	1.00	ug/L
7440-50-8	Copper	517	10.0	1.37	ug/L
7439-89-6	Iron	5090	100	40.0	ug/L
7439-92-1	Lead	484	15.0	1.39	ug/L
7439-95-4	Magnesium	53100	100	50.0	ug/L
7439-96-5	Manganese	503	15.0	2.00	ug/L
7439-98-7	Molybdenum	513	50.0	3.75	ug/L
7440-02-0	Nickel	494	40.0	0.96	ug/L
7440-09-7	Potassium	18000	500	100	ug/L
7782-49-2	Selenium	511	40.0	4.34	ug/L
7440-22-4	Silver	492	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	491	100	1.20	ug/L
7440-62-2	Vanadium	562	20.0	3.75	ug/L
7440-66-6	Zinc	507	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	513	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.728	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.488	0.010	0.003	mg/L-N

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	478	10.0	2.80	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.24	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	3.54	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.45	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	3.40	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	3.53	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.36	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	4.28	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	3.60	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.28	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	3.76	0.556	0.129	ug/L
2691-41-0	HMX	2.79	0.222	0.039	ug/L
98-95-3	Nitrobenzene	3.60	0.556	0.151	ug/L
121-82-4	RDX	2.88	0.222	0.073	ug/L
479-45-8	Tetryl	4.11	0.556	0.222	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.6	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	50.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.4	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.7	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.6	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.6	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.1	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.2	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	51.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.9	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.8	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	38.4	1	0.112	ug/L
78-93-3	2-Butanone	44.7	5	0.235	ug/L
95-49-8	2-Chlorotoluene	55.3	1	0.090	ug/L
591-78-6	2-Hexanone	39.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	48.3	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	48.2	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	44.8	5	0.142	ug/L
67-64-1	Acetone	31.1	5	0.322	ug/L
71-43-2	Benzene	48.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.8	1	0.095	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	52.7	1	0.071	ug/L
75-25-2	Bromoform	45.4	1	0.278	ug/L
74-83-9	Bromomethane	43.7	1	0.276	ug/L
75-15-0	Carbon disulfide	49.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	51.6	1	0.056	ug/L
108-90-7	Chlorobenzene	48.6	1	0.055	ug/L
75-00-3	Chloroethane	52.3	1	0.279	ug/L
67-66-3	Chloroform	49.8	1	0.062	ug/L
74-87-3	Chloromethane	50.6	1	0.076	ug/L
74-95-3	Dibromomethane	50.0	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	51.1	1	0.088	ug/L
100-41-4	Ethylbenzene	53.1	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.8	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.4	1	0.058	ug/L
75-09-2	Methylene chloride	47.5	5	0.102	ug/L
91-20-3	Naphthalene	44.0	1	0.175	ug/L
100-42-5	Styrene	47.7	1	0.058	ug/L
127-18-4	Tetrachloroethene	51.6	1	0.141	ug/L
108-88-3	Toluene	54.8	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	49.4	1	0.094	ug/L
75-01-4	Vinyl chloride	50.7	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.5	1	0.105	ug/L
136777-61-2	m,p-Xylene	98.1	2	0.099	ug/L
104-51-8	n-Butylbenzene	48.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	48.8	1	0.069	ug/L
95-47-6	o-Xylene	49.5	1	0.077	ug/L
135-98-8	sec-Butylbenzene	48.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	38.7	5	0.084	ug/L
98-06-6	tert-Butylbenzene	49.2	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	51.4	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.6	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1890	50.0	10.5	mg/L
14808-79-8	Sulfate	3230	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0481	0.0050	0.0006	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.80	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4850	200	60.0	ug/L
7440-36-0	Antimony	518	60.0	4.03	ug/L
7440-38-2	Arsenic	518	10.0	2.53	ug/L
7440-39-3	Barium	496	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L
7440-70-2	Calcium	54000	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	490	10.0	1.00	ug/L
7440-50-8	Copper	509	10.0	1.37	ug/L
7439-89-6	Iron	4870	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	53200	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	510	50.0	3.75	ug/L
7440-02-0	Nickel	486	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	514	40.0	4.34	ug/L
7440-22-4	Silver	491	10.0	0.60	ug/L
7440-28-0	Thallium	477	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	506	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	585000	5000	1000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.80	0.20	0.081	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5210	200	60.0	ug/L
7440-36-0	Antimony	508	60.0	4.03	ug/L
7440-38-2	Arsenic	508	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	484	5.00	0.20	ug/L
7440-70-2	Calcium	54700	100	50.0	ug/L
7440-47-3	Chromium	485	10.0	1.00	ug/L
7440-48-4	Cobalt	488	10.0	1.00	ug/L
7440-50-8	Copper	519	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	52100	100	50.0	ug/L
7439-96-5	Manganese	504	15.0	2.00	ug/L
7439-98-7	Molybdenum	509	50.0	3.75	ug/L
7440-02-0	Nickel	487	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	499	40.0	4.34	ug/L
7440-22-4	Silver	494	10.0	0.60	ug/L
7440-28-0	Thallium	470	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	563	20.0	3.75	ug/L
7440-66-6	Zinc	509	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	515	10.0	0.11	ug/L

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.18	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	3.44	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.33	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	3.28	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	3.43	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.24	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	4.09	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	3.46	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.21	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	3.62	0.510	0.118	ug/L
2691-41-0	HMX	2.71	0.204	0.036	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
98-95-3	Nitrobenzene	3.39	0.510	0.139	ug/L
121-82-4	RDX	3.01	0.204	0.067	ug/L
479-45-8	Tetryl	4.23	0.510	0.204	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.729	0.010	0.003	mg/L-N

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	495	10.0	2.80	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.1	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	49.1	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	47.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	53.2	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.3	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	49.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.1	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.2	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.0	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	48.5	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.1	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.0	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.0	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	39.8	1	0.112	ug/L
78-93-3	2-Butanone	42.2	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.8	1	0.090	ug/L
591-78-6	2-Hexanone	39.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.2	1	0.046	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
99-87-6	4-Isopropyltoluene	46.3	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	43.4	5	0.142	ug/L
67-64-1	Acetone	32.3	5	0.322	ug/L
71-43-2	Benzene	46.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.1	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	50.7	1	0.071	ug/L
75-25-2	Bromoform	44.1	1	0.278	ug/L
74-83-9	Bromomethane	45.2	1	0.276	ug/L
75-15-0	Carbon disulfide	47.4	1	0.190	ug/L
56-23-5	Carbon tetrachloride	50.4	1	0.056	ug/L
108-90-7	Chlorobenzene	46.7	1	0.055	ug/L
75-00-3	Chloroethane	50.3	1	0.279	ug/L
67-66-3	Chloroform	48.2	1	0.062	ug/L
74-87-3	Chloromethane	52.2	1	0.076	ug/L
74-95-3	Dibromomethane	49.6	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.5	1	0.088	ug/L
100-41-4	Ethylbenzene	50.4	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	46.2	1	0.058	ug/L
75-09-2	Methylene chloride	46.4	5	0.102	ug/L
91-20-3	Naphthalene	43.7	1	0.175	ug/L
100-42-5	Styrene	46.0	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.3	1	0.141	ug/L
108-88-3	Toluene	52.2	1	0.078	ug/L
79-01-6	Trichloroethene	47.4	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	46.9	1	0.094	ug/L
75-01-4	Vinyl chloride	48.6	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	51.1	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.9	1	0.105	ug/L
136777-61-2	m,p-Xylene	94.0	2	0.099	ug/L
104-51-8	n-Butylbenzene	46.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	47.3	1	0.069	ug/L
95-47-6	o-Xylene	47.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	46.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	40.0	5	0.084	ug/L
98-06-6	tert-Butylbenzene	47.1	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	49.0	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.7	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1970	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3280	100	21.0	mg/L
14808-79-8	Sulfate	2140	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	77.6B	200	60.0	ug/L
7440-38-2	Arsenic	2.74B	10.0	2.53	ug/L
7440-39-3	Barium	18.7	10.0	0.11	ug/L
7440-43-9	Cadmium	0.88B	5.00	0.20	ug/L
7440-70-2	Calcium	280000	100	50.0	ug/L
7440-47-3	Chromium	5.00B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.00B	10.0	1.00	ug/L
7440-50-8	Copper	21.0	10.0	1.37	ug/L
7439-95-4	Magnesium	250000	100	50.0	ug/L
7439-98-7	Molybdenum	17.9B	50.0	3.75	ug/L
7440-02-0	Nickel	19.1B	40.0	0.96	ug/L
7440-09-7	Potassium	19300	500	100	ug/L
7782-49-2	Selenium	28.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	73.5	20.0	3.75	ug/L
7440-66-6	Zinc	46.8	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2020000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.31B	5.00	0.20	ug/L
7440-70-2	Calcium	269000	100	50.0	ug/L
7440-47-3	Chromium	7.48B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	7.48B	10.0	1.00	ug/L
7440-50-8	Copper	22.5	10.0	1.37	ug/L
7439-89-6	Iron	79.9B	100	40.0	ug/L
7439-95-4	Magnesium	239000	100	50.0	ug/L
7439-96-5	Manganese	4.10B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-98-7	Molybdenum	16.9B	50.0	3.75	ug/L
7440-02-0	Nickel	19.7B	40.0	0.96	ug/L
7440-09-7	Potassium	18500	500	100	ug/L
7782-49-2	Selenium	31.1B	40.0	4.34	ug/L
7440-62-2	Vanadium	75.3	20.0	3.75	ug/L
7440-66-6	Zinc	47.2	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1960000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.7	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.901	0.050	0.013	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.1	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8270	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	3.06	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3250	100	21.0	mg/L
14808-79-8	Sulfate	2150	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	64.5B	200	60.0	ug/L
7440-43-9	Cadmium	0.30B	5.00	0.20	ug/L
7440-70-2	Calcium	276000	100	50.0	ug/L
7440-47-3	Chromium	7.87B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	7.87B	10.0	1.00	ug/L
7440-50-8	Copper	22.8	10.0	1.37	ug/L
7439-89-6	Iron	91.3B	100	40.0	ug/L
7439-95-4	Magnesium	244000	100	50.0	ug/L
7439-96-5	Manganese	4.33B	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.6B	50.0	3.75	ug/L
7440-02-0	Nickel	20.7B	40.0	0.96	ug/L
7440-09-7	Potassium	19400	500	100	ug/L
7782-49-2	Selenium	27.2B	40.0	4.34	ug/L
7440-62-2	Vanadium	76.3	20.0	3.75	ug/L
7440-66-6	Zinc	50.5	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2060000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	25.3	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	18.8	10.0	0.11	ug/L
7440-43-9	Cadmium	0.83B	5.00	0.20	ug/L
7440-70-2	Calcium	278000	100	50.0	ug/L
7440-47-3	Chromium	5.16B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.16B	10.0	1.00	ug/L
7440-50-8	Copper	20.5	10.0	1.37	ug/L
7439-95-4	Magnesium	248000	100	50.0	ug/L
7439-98-7	Molybdenum	18.2B	50.0	3.75	ug/L
7440-02-0	Nickel	19.6B	40.0	0.96	ug/L
7440-09-7	Potassium	19400	500	100	ug/L
7782-49-2	Selenium	26.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	72.4	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	46.9	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2040000	25000	5000	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8310	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.915	0.020	0.005	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	82.1	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	2.99	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	269	20.0	4.20	mg/L
14808-79-8	Sulfate	352	40.0	15.8	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0013B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.7	10.0	0.11	ug/L
7440-70-2	Calcium	36800	100	50.0	ug/L
7440-47-3	Chromium	1.30B	10.0	1.00	ug/L
7440-50-8	Copper	23.0	10.0	1.37	ug/L
7439-95-4	Magnesium	35000	100	50.0	ug/L
7439-96-5	Manganese	2.26B	15.0	2.00	ug/L
7439-98-7	Molybdenum	6.27B	50.0	3.75	ug/L
7440-09-7	Potassium	6400	500	100	ug/L
7440-62-2	Vanadium	56.4	20.0	3.75	ug/L
7440-66-6	Zinc	9.80B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	297000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	38200	100	50.0	ug/L
7440-47-3	Chromium	5.09B	10.0	1.00	ug/L
7440-50-8	Copper	87.7	10.0	1.37	ug/L
7439-89-6	Iron	176	100	40.0	ug/L
7439-92-1	Lead	2.30B	15.0	1.39	ug/L
7439-95-4	Magnesium	36600	100	50.0	ug/L
7439-96-5	Manganese	6.88B	15.0	2.00	ug/L
7439-98-7	Molybdenum	7.31B	50.0	3.75	ug/L
7440-02-0	Nickel	2.29B	40.0	0.96	ug/L
7440-09-7	Potassium	6610	500	100	ug/L
7782-49-2	Selenium	4.44B	40.0	4.34	ug/L
7440-62-2	Vanadium	58.8	20.0	3.75	ug/L
7440-66-6	Zinc	22.3	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	308000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	30.7	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	192	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1110	10.0	10.0	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	7.00B	10.0	2.80	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.615	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	17.6	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	537	50.0	10.5	mg/L
14808-79-8	Sulfate	616	100	39.5	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	20.2	10.0	0.11	ug/L
7440-70-2	Calcium	59600	100	50.0	ug/L
7440-47-3	Chromium	2.19B	10.0	1.00	ug/L
7440-50-8	Copper	17.7	10.0	1.37	ug/L
7439-95-4	Magnesium	60300	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-98-7	Molybdenum	4.09B	50.0	3.75	ug/L
7440-09-7	Potassium	8430	500	100	ug/L
7440-62-2	Vanadium	65.5	20.0	3.75	ug/L
7440-66-6	Zinc	4.16B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	458000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	111B	200	60.0	ug/L
7440-70-2	Calcium	63100	100	50.0	ug/L
7440-47-3	Chromium	4.46B	10.0	1.00	ug/L
7440-50-8	Copper	44.0	10.0	1.37	ug/L
7439-89-6	Iron	116	100	40.0	ug/L
7439-95-4	Magnesium	63400	100	50.0	ug/L
7439-96-5	Manganese	7.94B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.39B	50.0	3.75	ug/L
7440-09-7	Potassium	8970	500	100	ug/L
7440-62-2	Vanadium	68.2	20.0	3.75	ug/L
7440-66-6	Zinc	13.4B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	469000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	28.8	10.0	0.11	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	18.0	10.0	2.80	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.163	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1760	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	7.24	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	164B	200	60.0	ug/L
7440-39-3	Barium	16.5	10.0	0.11	ug/L
7440-70-2	Calcium	37400	100	50.0	ug/L
7440-47-3	Chromium	2.09B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.09B	10.0	1.00	ug/L
7440-50-8	Copper	11.6	10.0	1.37	ug/L
7439-95-4	Magnesium	36700	100	50.0	ug/L
7439-98-7	Molybdenum	8.79B	50.0	3.75	ug/L
7440-09-7	Potassium	7280	500	100	ug/L
7440-62-2	Vanadium	53.4	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	527000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	102	60.0	4.03	ug/L
7440-39-3	Barium	17.6	10.0	0.11	ug/L
7440-70-2	Calcium	35100	100	50.0	ug/L
7440-47-3	Chromium	3.05B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.05B	10.0	1.00	ug/L
7440-50-8	Copper	11.0	10.0	1.37	ug/L
7439-95-4	Magnesium	34200	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	2.76B	15.0	2.00	ug/L
7439-98-7	Molybdenum	7.44B	50.0	3.75	ug/L
7440-09-7	Potassium	6860	500	100	ug/L
7782-49-2	Selenium	5.87B	40.0	4.34	ug/L
7440-62-2	Vanadium	50.8	20.0	3.75	ug/L
7440-66-6	Zinc	20.1	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	491000	1000	200	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	473	20.0	4.20	mg/L
14808-79-8	Sulfate	544	40.0	15.8	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.325	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1780	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	1.89	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.9	10.0	0.11	ug/L
7440-70-2	Calcium	14400	100	50.0	ug/L
7440-50-8	Copper	5.49B	10.0	1.37	ug/L
7439-95-4	Magnesium	9750	100	50.0	ug/L
7439-96-5	Manganese	70.1	15.0	2.00	ug/L
7439-98-7	Molybdenum	34.0B	50.0	3.75	ug/L
7440-09-7	Potassium	2680	500	100	ug/L
7440-62-2	Vanadium	16.5B	20.0	3.75	ug/L
7440-66-6	Zinc	25.0	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	489000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.23B	10.0	2.53	ug/L
7440-39-3	Barium	13.3	10.0	0.11	ug/L
7440-70-2	Calcium	13600	100	50.0	ug/L
7440-50-8	Copper	4.95B	10.0	1.37	ug/L
7439-89-6	Iron	43.8B	100	40.0	ug/L
7439-92-1	Lead	1.92B	15.0	1.39	ug/L
7439-95-4	Magnesium	9350	100	50.0	ug/L
7439-96-5	Manganese	66.8	15.0	2.00	ug/L
7439-98-7	Molybdenum	31.9B	50.0	3.75	ug/L
7440-09-7	Potassium	2520	500	100	ug/L
7440-62-2	Vanadium	16.1B	20.0	3.75	ug/L
7440-66-6	Zinc	24.7	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	451000	1000	200	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	235	20.0	4.20	mg/L
14808-79-8	Sulfate	423	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1420	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**327**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 21:36	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 21:36	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**16.0**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.8	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:11	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.278U	1.00	0.278	ug/L
99-65-0	1,3-Dinitrobenzene	0.504U	2.00	0.504	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.606U	2.00	0.606	ug/L
121-14-2	2,4-Dinitrotoluene	0.250U	1.00	0.250	ug/L
606-20-2	2,6-Dinitrotoluene	0.216U	1.00	0.216	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.250U	1.00	0.250	ug/L
88-72-2	2-Nitrotoluene	0.178U	1.00	0.178	ug/L
99-08-1	3-Nitrotoluene	0.214U	1.00	0.214	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.216U	1.00	0.216	ug/L
99-99-0	4-Nitrotoluene	0.232U	1.00	0.232	ug/L
2691-41-0	HMX	0.070U	0.400	0.070	ug/L
98-95-3	Nitrobenzene	0.272U	1.00	0.272	ug/L
121-82-4	RDX	0.132U	0.400	0.132	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:11	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.400U	1.00	0.400	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	4	2.78	ug/L	70	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:28	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:55	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:59	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**79.6J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**127000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.52J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.52J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**226**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**71800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**248**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**18.1J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.31J**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**94.7**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:59	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**129**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:01	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1930000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:45	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**19.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:33	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**5.99J**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**12.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**127000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.46J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.46J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**116**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**73500**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**208**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.5J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.44J**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**107**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:33	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**66.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**128**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:10	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1910000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6290**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/06/2011 15:56	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.56**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:10	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004J**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:02	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2190**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2130**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**130**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:37	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:11	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:05	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:05	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**12.4**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.8	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:58	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:58	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.64	ug/L	80	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:30	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:57	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:05	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.35B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**326000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.33B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.33B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**36.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**285000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.27B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**12.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**20300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**19.6B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:05	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**655**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:08	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2260000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:12	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:40	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.59B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**4.01B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**17.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.90B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**338000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.02B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**4.02B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**35.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**295000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.11B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**13.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**20600**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**18.9B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:40	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**653**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:17	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2240000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 13:30	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7000**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:33	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.900**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:11	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:55	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4180**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2110**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**56.6**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:38	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 17:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:27	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.51J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:27	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.3	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:49	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:49	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.8	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:11	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:11	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**16.3**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.1	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 08:45	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.154U	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	0.280U	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.337U	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	0.139U	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	0.120U	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.139U	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	0.099U	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	0.119U	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.120U	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	0.129U	0.556	0.129	ug/L
2691-41-0	HMX	0.039U	0.222	0.039	ug/L
98-95-3	Nitrobenzene	0.151U	0.556	0.151	ug/L
121-82-4	RDX	0.073U	0.222	0.073	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 08:45	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.222U	0.556	0.222	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.22	1.76	ug/L	79	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:31	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:58	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:12	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**78.8B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**252000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**8.55B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**8.55B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**29.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**160**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**238000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**9.22B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**20.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**27.0B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**20.0B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:12	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**81.0**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**175**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:15	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2040000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:19	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:01	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**17.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.69B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**257000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.75B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.75B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**244000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**20.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**26.2B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**21.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:01	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**163**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:24	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2020000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7800**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:35	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.375**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:14	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:13	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3660**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2130**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**69.2**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:00	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:38	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**3.54J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:38	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 09:32	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 09:32	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	2.44	ug/L	120	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:36	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:00	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:19	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**81.2B**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.31B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**3.46B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**166B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:19	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**7.09B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 19:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	200U	1000	200	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:26	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**9.49B**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:07	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**199B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**2.57B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**3.53B**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.25B**	**5.00**	**0.20**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**142B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:07	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**10.3B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 17:08	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**547**	**100**	**50.0**	**ug/L**
7440-23-5	Sodium	200U	1000	200	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**22.0**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:39	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:18	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 13:30	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.111**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 12:38	DJH	455971

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:03	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:15	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:01	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:01	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**4.55**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	49.9	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 02:44	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 02:44	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.69	ug/L	82	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:37	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:01	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:26	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**63.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**342000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**6.04B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**6.04B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**130**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**270000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**7.83B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**8.07B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**19800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.7B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:26	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**17.5B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:22	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2620000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:34	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**20.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**67.3B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**14.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.81B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**342000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.89B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.89B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**271000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**8.48B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**19700**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**31.5B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**14.2B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:31	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2550000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9540**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:40	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.719**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:19	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:48	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4550**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2460**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**44.5**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:04	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:16	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:23	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**3.22J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:23	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.5	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060809	**TB5**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:45	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060809	**TB5**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:45	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.2	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 17:58	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 17:58	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**6.28**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	85 - 115
2037-26-5	Toluene d8	50	52.3	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 03:31	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.146U	0.526	0.146	ug/L
99-65-0	1,3-Dinitrobenzene	0.265U	1.05	0.265	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.319U	1.05	0.319	ug/L
121-14-2	2,4-Dinitrotoluene	0.132U	0.526	0.132	ug/L
606-20-2	2,6-Dinitrotoluene	0.114U	0.526	0.114	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.132U	0.526	0.132	ug/L
88-72-2	2-Nitrotoluene	0.094U	0.526	0.094	ug/L
99-08-1	3-Nitrotoluene	0.113U	0.526	0.113	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114U	0.526	0.114	ug/L
99-99-0	4-Nitrotoluene	0.122U	0.526	0.122	ug/L
2691-41-0	HMX	0.037U	0.211	0.037	ug/L
98-95-3	Nitrobenzene	0.143U	0.526	0.143	ug/L
121-82-4	RDX	0.069U	0.211	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 03:31	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.211U	0.526	0.211	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.11	1.94	ug/L	92	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:20	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:43	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**276**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**49700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**8.54B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**8.54B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**14.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**204**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**48700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**12.6B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.94B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.96B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**7780**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**3.16B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**61.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.74B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:35	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**567000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 14:54	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**27.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 17:53	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**105B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**18.0**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**50800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.24B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.24B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.4**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**46.6B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**50100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.16B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.66B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**7880**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 17:53	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.53B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**58.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 16:46	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**588000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1980**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:37	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.233**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:32	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:05	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**651**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**704**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**169**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:22	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:19	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.6	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	50.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.4	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.7	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.6	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.6	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.1	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.2	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	51.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.9	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.8	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	38.4	1	0.112	ug/L
78-93-3	2-Butanone	44.7	5	0.235	ug/L
95-49-8	2-Chlorotoluene	55.3	1	0.090	ug/L
591-78-6	2-Hexanone	39.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	48.3	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	48.2	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	44.8	5	0.142	ug/L
67-64-1	Acetone	31.1	5	0.322	ug/L
71-43-2	Benzene	48.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.8	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	52.7	1	0.071	ug/L
75-25-2	Bromoform	45.4	1	0.278	ug/L
74-83-9	Bromomethane	43.7	1	0.276	ug/L
75-15-0	Carbon disulfide	49.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	51.6	1	0.056	ug/L
108-90-7	Chlorobenzene	48.6	1	0.055	ug/L
75-00-3	Chloroethane	52.3	1	0.279	ug/L
67-66-3	Chloroform	49.8	1	0.062	ug/L
74-87-3	Chloromethane	50.6	1	0.076	ug/L
74-95-3	Dibromomethane	50.0	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:19	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	51.1	1	0.088	ug/L
100-41-4	Ethylbenzene	53.1	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.8	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.4	1	0.058	ug/L
75-09-2	Methylene chloride	47.5	5	0.102	ug/L
91-20-3	Naphthalene	44.0	1	0.175	ug/L
100-42-5	Styrene	47.7	1	0.058	ug/L
127-18-4	Tetrachloroethene	51.6	1	0.141	ug/L
108-88-3	Toluene	54.8	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	49.4	1	0.094	ug/L
75-01-4	Vinyl chloride	50.7	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.5	1	0.105	ug/L
136777-61-2	m,p-Xylene	98.1	2	0.099	ug/L
104-51-8	n-Butylbenzene	48.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	48.8	1	0.069	ug/L
95-47-6	o-Xylene	49.5	1	0.077	ug/L
135-98-8	sec-Butylbenzene	48.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	38.7	5	0.084	ug/L
98-06-6	tert-Butylbenzene	49.2	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	51.4	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.6	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	48.8	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 11:53	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.24	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	3.54	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.45	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	3.40	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	3.53	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.36	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	4.28	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	3.60	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.28	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	3.76	0.556	0.129	ug/L
2691-41-0	HMX	2.79	0.222	0.039	ug/L
98-95-3	Nitrobenzene	3.60	0.556	0.151	ug/L
121-82-4	RDX	2.88	0.222	0.073	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 11:53	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**4.11**	**0.556**	**0.222**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.22	1.79	ug/L	81	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:22	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.66**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:44	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.78**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:25	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5230**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**515**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**517**	**10.0**	**2.53**	**ug/L**
7440-41-7	**Beryllium**	**496**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**483**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**483**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**496**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**517**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5090**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**484**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**53100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**503**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**513**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**494**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18000**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**511**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**492**	**10.0**	**0.60**	**ug/L**
7440-28-0	**Thallium**	**478**	**20.0**	**1.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:25	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	491	100	1.20	ug/L
7440-62-2	Vanadium	562	20.0	3.75	ug/L
7440-66-6	Zinc	507	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:42	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:01	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	513	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5040	200	60.0	ug/L
7440-36-0	Antimony	535	60.0	4.03	ug/L
7440-38-2	Arsenic	552	10.0	2.53	ug/L
7440-39-3	Barium	524	10.0	0.11	ug/L
7440-41-7	Beryllium	522	5.00	0.11	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-70-2	Calcium	56100	100	50.0	ug/L
7440-47-3	Chromium	498	10.0	1.00	ug/L
7440-48-4	Cobalt	512	10.0	1.00	ug/L
7440-50-8	Copper	535	10.0	1.37	ug/L
7439-89-6	Iron	5030	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	54200	100	50.0	ug/L
7439-96-5	Manganese	515	15.0	2.00	ug/L
7439-98-7	Molybdenum	526	50.0	3.75	ug/L
7440-02-0	Nickel	507	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	540	40.0	4.34	ug/L
7440-22-4	Silver	518	10.0	0.60	ug/L
7440-28-0	Thallium	498	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	**Titanium**	**507**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**581**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**532**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 16:54	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**620000**	**5000**	**1000**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:41	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.728**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:36	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.488**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:58	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1900**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3260**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**478**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:23	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0473**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:41	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.1	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	49.1	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	47.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	53.2	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.3	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	49.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.1	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.2	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.0	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	48.5	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.1	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.0	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.0	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	39.8	1	0.112	ug/L
78-93-3	2-Butanone	42.2	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.8	1	0.090	ug/L
591-78-6	2-Hexanone	39.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.2	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.3	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	43.4	5	0.142	ug/L
67-64-1	Acetone	32.3	5	0.322	ug/L
71-43-2	Benzene	46.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.1	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	50.7	1	0.071	ug/L
75-25-2	Bromoform	44.1	1	0.278	ug/L
74-83-9	Bromomethane	45.2	1	0.276	ug/L
75-15-0	Carbon disulfide	47.4	1	0.190	ug/L
56-23-5	Carbon tetrachloride	50.4	1	0.056	ug/L
108-90-7	Chlorobenzene	46.7	1	0.055	ug/L
75-00-3	Chloroethane	50.3	1	0.279	ug/L
67-66-3	Chloroform	48.2	1	0.062	ug/L
74-87-3	Chloromethane	52.2	1	0.076	ug/L
74-95-3	Dibromomethane	49.6	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:41	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	**Dichlorodifluoromethane**	**49.5**	**1**	**0.088**	**ug/L**
100-41-4	**Ethylbenzene**	**50.4**	**1**	**0.180**	**ug/L**
87-68-3	**Hexachlorobutadiene**	**49.0**	**1**	**0.347**	**ug/L**
98-82-8	**Isopropylbenzene (Cumene)**	**46.2**	**1**	**0.058**	**ug/L**
75-09-2	**Methylene chloride**	**46.4**	**5**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**43.7**	**1**	**0.175**	**ug/L**
100-42-5	**Styrene**	**46.0**	**1**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**49.3**	**1**	**0.141**	**ug/L**
108-88-3	**Toluene**	**52.2**	**1**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**47.4**	**1**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**46.9**	**1**	**0.094**	**ug/L**
75-01-4	**Vinyl chloride**	**48.6**	**1**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.1**	**1**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**45.9**	**1**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**94.0**	**2**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.1**	**1**	**0.068**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.3**	**1**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**47.9**	**1**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**46.4**	**1**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**40.0**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.1**	**1**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**49.0**	**1**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**43.7**	**1**	**0.068**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	48.1	ug/L	96	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 12:40	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	**1,3,5-Trinitrobenzene**	**3.18**	**0.510**	**0.142**	**ug/L**
99-65-0	**1,3-Dinitrobenzene**	**3.44**	**1.02**	**0.257**	**ug/L**
118-96-7	**2,4,6-Trinitrotoluene**	**3.33**	**1.02**	**0.309**	**ug/L**
121-14-2	**2,4-Dinitrotoluene**	**3.28**	**0.510**	**0.128**	**ug/L**
606-20-2	**2,6-Dinitrotoluene**	**3.43**	**0.510**	**0.110**	**ug/L**
355-72-78-2	**2-Amino-4,6-dinitrotoluene**	**3.24**	**0.510**	**0.128**	**ug/L**
88-72-2	**2-Nitrotoluene**	**4.09**	**0.510**	**0.091**	**ug/L**
99-08-1	**3-Nitrotoluene**	**3.46**	**0.510**	**0.109**	**ug/L**
1946-51-0	**4-Amino-2,6-dinitrotoluene**	**3.21**	**0.510**	**0.110**	**ug/L**
99-99-0	**4-Nitrotoluene**	**3.62**	**0.510**	**0.118**	**ug/L**
2691-41-0	**HMX**	**2.71**	**0.204**	**0.036**	**ug/L**
98-95-3	**Nitrobenzene**	**3.39**	**0.510**	**0.139**	**ug/L**
121-82-4	**RDX**	**3.01**	**0.204**	**0.067**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 12:40	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**4.23**	**0.510**	**0.204**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.69	ug/L	83	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:23	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.80**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:46	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.80**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:32	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5210**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**508**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**508**	**10.0**	**2.53**	**ug/L**
7440-41-7	**Beryllium**	**498**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**484**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**485**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**488**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**519**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5010**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**478**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**52100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**504**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**509**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**487**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**17800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**499**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**494**	**10.0**	**0.60**	**ug/L**
7440-28-0	**Thallium**	**470**	**20.0**	**1.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:32	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	563	20.0	3.75	ug/L
7440-66-6	Zinc	509	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:49	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:08	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	515	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:06	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4850	200	60.0	ug/L
7440-36-0	Antimony	518	60.0	4.03	ug/L
7440-38-2	Arsenic	518	10.0	2.53	ug/L
7440-39-3	Barium	496	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L
7440-70-2	Calcium	54000	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	490	10.0	1.00	ug/L
7440-50-8	Copper	509	10.0	1.37	ug/L
7439-89-6	Iron	4870	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	53200	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	510	50.0	3.75	ug/L
7440-02-0	Nickel	486	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	514	40.0	4.34	ug/L
7440-22-4	Silver	491	10.0	0.60	ug/L
7440-28-0	Thallium	477	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:06	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	**Titanium**	**486**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**553**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**506**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 17:01	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**585000**	**5000**	**1000**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:42	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.729**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:37	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.479**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 15:16	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1890**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3230**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:07	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**495**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:24	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0481**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1970**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**171**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060814	**TB6**	Water	05/09/2011 00:00	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 19:23	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060814	**TB6**	Water	05/09/2011 00:00	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 19:23	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	85 - 115
2037-26-5	Toluene d8	50	52.4	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 10:52	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 10:52	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**3.06**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.8	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 13:26	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 13:26	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.8	ug/L	89	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:39	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:03	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:47	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.31B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**269000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**7.48B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**7.48B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**79.9B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**239000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**4.10B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.7B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18500**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**31.1B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:47	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**75.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**47.2**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:29	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1960000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:41	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.7**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**77.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**2.74B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**18.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.88B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**280000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.00B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.00B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**21.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**250000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**17.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.1B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**28.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**73.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**46.8**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:38	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2020000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**8270**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/11/2011 08:34	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.901**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:50	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:33	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3280**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2140**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:27	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:25	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**2.99**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.3	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 14:13	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 14:13	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.86	ug/L	91	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:41	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:05	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:54	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**64.5B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.30B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**276000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**7.87B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**7.87B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**91.3B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**244000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**4.33B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**20.7B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**27.2B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:54	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**50.5**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:36	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2060000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:01	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**25.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:28	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**18.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.83B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**278000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.16B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.16B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**20.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**248000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**18.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.6B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**26.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:28	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**72.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**46.9**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:45	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2040000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**8310**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/11/2011 08:40	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.915**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:55	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:51	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3250**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2150**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**82.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:29	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:26	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060817	**TB8**	Water	05/10/2011 00:00	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:37	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060817	**TB8**	Water	05/10/2011 00:00	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:37	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	85 - 115
2037-26-5	Toluene d8	50	49.6	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:06	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**17.6**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:06	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 15:47	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 15:47	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.92	ug/L	93	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:42	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:06	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**38200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.09B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**87.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**176**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**2.30B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**36600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.88B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**7.31B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.29B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**6610**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**4.44B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**58.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**22.3**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 20:46	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**308000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:08	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**30.7**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:35	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**23.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**36800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.30B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**35000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.26B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**6.27B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:35	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**56.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**9.80B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 17:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**297000**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1110**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:06	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.615**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 16:08	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**269**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**352**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**192**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:20	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**7.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0013B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:28	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**7.24**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:28	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	49.7	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 16:34	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.146U	0.526	0.146	ug/L
99-65-0	1,3-Dinitrobenzene	0.265U	1.05	0.265	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.319U	1.05	0.319	ug/L
121-14-2	2,4-Dinitrotoluene	0.132U	0.526	0.132	ug/L
606-20-2	2,6-Dinitrotoluene	0.114U	0.526	0.114	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.132U	0.526	0.132	ug/L
88-72-2	2-Nitrotoluene	0.094U	0.526	0.094	ug/L
99-08-1	3-Nitrotoluene	0.113U	0.526	0.113	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114U	0.526	0.114	ug/L
99-99-0	4-Nitrotoluene	0.122U	0.526	0.122	ug/L
2691-41-0	HMX	0.037U	0.211	0.037	ug/L
98-95-3	Nitrobenzene	0.143U	0.526	0.143	ug/L
121-82-4	RDX	0.069U	0.211	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 16:34	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.211U	0.526	0.211	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.11	1.72	ug/L	82	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:44	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:08	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:08	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**111B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**63100**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.46B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**44.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**116**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**63400**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**7.94B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.39B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**8970**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:08	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**13.4B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 20:53	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**469000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:15	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**28.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:42	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**20.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**59600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.19B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**17.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**60300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.09B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**8430**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:42	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**65.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.16B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 18:03	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**458000**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1760**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:07	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.163**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:17	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 16:26	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**537**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**616**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**161**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:21	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**18.0**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060820	**TB7**	Water	05/10/2011 00:00	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:50	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060820	**TB7**	Water	05/10/2011 00:00	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:50	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.7	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:06	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:06	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**1.89**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	85 - 115
2037-26-5	Toluene d8	50	48.8	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 16:55	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 16:55	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.95	ug/L	96	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A Dissolved	1	05/20/2011 12:44	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A	1	05/20/2011 12:46	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/20/2011 23:29	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**491000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/24/2011 23:41	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**102**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**17.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**35100**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.05B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.05B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/24/2011 23:41	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	**Copper**	**11.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**34200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.76B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**7.44B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6860**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.87B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**50.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**20.1**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/20/2011 22:01	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**527000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 22:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**164B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**16.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**37400**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.09B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.09B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.6**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**36700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**8.79B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**7280**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 22:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**53.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1780**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:00	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.325**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:26	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:15	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**473**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**544**	**40.0**	**15.8**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**171**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:01	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:28	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:28	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.6	ug/L	107	75 - 120
1868-53-7	Dibromofluoromethane	50	47.1	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 17:42	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 17:42	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	2.08	ug/L	102	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A Dissolved	1	05/20/2011 12:43	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A	1	05/20/2011 12:37	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/21/2011 00:07	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**451000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/25/2011 00:17	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.23B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**13.3**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**13600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/25/2011 00:17	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	**Copper**	**4.95B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**43.8B**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.92B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**9350**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**66.8**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**31.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2520**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**16.1B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**24.7**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/20/2011 22:38	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**489000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 23:18	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**11.9**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**14400**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	1.00	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.49B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**9750**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**70.1**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**34.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2680**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 23:18	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**16.5B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**25.0**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1420**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:04	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:30	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:33	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**235**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**423**	**40.0**	**15.8**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**327**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:02	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170903	TB9	Water	05/16/2011 00:00	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:50	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170903	**TB9**	Water	05/16/2011 00:00	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:50	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	54	ug/L	108	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	70 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001	**Client ID**	MB456001	LCS456001	LCSD456001
Prep Batch N/A	**GCAL ID**	945623	945624	945625
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	05/09/2011 21:07	05/09/2011 19:27	05/09/2011 19:56
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	3.02J	0.322	50.0	44.0	88	40 - 140	52.2	104	17	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	55.5	111	65 - 130	54.4	109	2	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	54.0	108	75 - 120	52.5	105	3	30
75-25-2	Bromoform	0.278U	0.278	50.0	53.3	107	70 - 130	54.3	109	2	30
74-83-9	Bromomethane	0.276U	0.276	50.0	44.6	89	30 - 145	46.8	94	5	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	58.5	117	35 - 160	51.6	103	13	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	56.8	114	65 - 140	54.0	108	5	30
75-00-3	Chloroethane	0.279U	0.279	50.0	55.0	110	60 - 135	52.1	104	5	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	105	105	75 - 130	99.1	99	6	30
67-66-3	Chloroform	0.062U	0.062	50.0	53.5	107	65 - 135	51.1	102	5	30
74-87-3	Chloromethane	0.076U	0.076	50.0	44.0	88	40 - 125	44.3	89	0.7	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	51.5	103	75 - 125	51.5	103	0	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	59.3	119	30 - 155	55.9	112	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	53.4	107	70 - 135	50.9	102	5	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	52.1	104	70 - 130	51.1	102	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.5	107	70 - 125	51.2	102	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	55.1	110	60 - 140	50.9	102	8	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	49.9	100	55 - 140	47.8	96	4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.4	105	75 - 125	50.9	102	3	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	52.9	106	70 - 130	51.6	103	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	53.8	108	55 - 140	52.1	104	3	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.1	104	75 - 125	49.2	98	6	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	45.1	90	55 - 130	49.5	99	9	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	53.4	107	75 - 125	49.4	99	8	30
78-93-3	2-Butanone	0.235U	0.235	50.0	43.7	87	30 - 150	47.6	95	9	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	47.3	95	60 - 135	48.2	96	2	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	52.2	104	70 - 130	47.9	96	9	30
100-42-5	Styrene	0.058U	0.058	50.0	52.1	104	65 - 135	50.3	101	4	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.7	107	45 - 150	49.9	100	7	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	52.7	105	80 - 130	51.0	102	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	47.4	95	65 - 130	48.8	98	3	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	53.5	107	65 - 135	49.2	98	8	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	55.0	110	65 - 130	52.1	104	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001		**Client ID**	MB456001			LCS456001			LCSD456001		
Prep Batch N/A		**GCAL ID**	945623			945624			945625		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/09/2011 21:07			05/09/2011 19:27			05/09/2011 19:56		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	50.3	101	75 - 125	50.3	101	0	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	57.2	114	60 - 145	54.6	109	5	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.5	93	75 - 125	49.5	99	6	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	52.0	104	75 - 130	48.4	97	7	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.3	105	75 - 130	48.5	97	8	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	54.7	109	50 - 145	51.3	103	6	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.4	105	80 - 120	49.8	100	5	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	48.2	96	50 - 130	49.4	99	2	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	50.6	101	80 - 120	50.8	102	0.4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	51.7	103	65 - 125	50.8	102	2	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	54.7	109	75 - 130	48.7	97	12	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	51.8	104	70 - 135	48.2	96	7	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	54.9	110	75 - 130	51.6	103	6	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	49.4	99	75 - 125	49.2	98	0.4	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	49.3	99	75 - 125	47.5	95	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.1	102	75 - 125	48.0	96	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	50.8	102	75 - 130	47.9	96	6	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	52.8	106	70 - 130	47.6	95	10	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.7	107	70 - 125	47.9	96	11	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	51.8	104	75 - 125	48.2	96	7	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	51.3	103	75 - 125	48.2	96	6	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	55.0	110	70 - 135	48.0	96	14	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.0	102	70 - 120	48.3	97	5	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	57.7	115	50 - 140	48.0	96	18	30
91-20-3	Naphthalene		0.175U	0.175	50.0	50.0	100	55 - 140	50.6	101	1	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	53.0	106	55 - 140	49.3	99	7	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	56.9	114	70 - 130	52.3	105	8	30
71-43-2	Benzene		0.049U	0.049	50.0	52.6	105	80 - 120	50.1	100	5	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	54.4	109	70 - 125	51.4	103	6	30
108-88-3	Toluene		0.078U	0.078	50.0	51.4	103	75 - 120	49.2	98	4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.2	102	80 - 120	49.4	99	4	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.9	102	50	52.5	105	75 - 120	52.3	105		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001		**Client ID**	MB456001			LCS456001			LCSD456001		
Prep Batch N/A		**GCAL ID**	945623			945624			945625		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/09/2011 21:07			05/09/2011 19:27			05/09/2011 19:56		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		50.5	101	50	51.3	103	85 - 115	51.5	103		
2037-26-5	Toluene d8		50.5	101	50	49.7	99	85 - 120	49.7	99		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	49.9	100	70 - 120	50	100		

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	54.8	110	40 - 140	50.8	102	8	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	53.1	106	65 - 130	50.4	101	5	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	53.7	107	75 - 120	50.2	100	7	30
75-25-2	Bromoform		0.278U	0.278	50.0	47.6	95	70 - 130	45.0	90	6	30
74-83-9	Bromomethane		0.276U	0.276	50.0	46.7	93	30 - 145	44.8	90	4	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	54.7	109	35 - 160	47.2	94	15	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	53.5	107	65 - 140	48.8	98	9	30
75-00-3	Chloroethane		0.279U	0.279	50.0	53.8	108	60 - 135	49.4	99	9	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	101	101	75 - 130	91.2	91	10	30
67-66-3	Chloroform		0.062U	0.062	50.0	51.5	103	65 - 135	48.1	96	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	54.1	108	40 - 125	48.0	96	12	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	52.6	105	75 - 125	50.9	102	3	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	53.9	108	30 - 155	47.7	95	12	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	51.7	103	70 - 135	48.8	98	6	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	50.2	100	70 - 130	48.0	96	4	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	54.9	110	70 - 125	50.4	101	9	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	53.8	108	60 - 140	48.3	97	11	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	49.2	98	55 - 140	45.2	90	8	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	53.8	108	75 - 125	50.8	102	6	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	47.6	95	70 - 130	45.8	92	4	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	46.7	93	55 - 140	44.6	89	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	54.0	108	75 - 125	49.1	98	10	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	50.1	100	55 - 130	48.4	97	3	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	50.4	101	75 - 125	45.0	90	11	30
78-93-3	2-Butanone		0.235U	0.235	50.0	56.8	114	30 - 150	55.0	110	3	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	48.8	98	60 - 135	48.3	97	1	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.3	103	70 - 130	45.8	92	11	30
100-42-5	Styrene		0.058U	0.058	50.0	49.5	99	65 - 135	46.1	92	7	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	53.9	108	45 - 150	47.7	95	12	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	52.9	106	80 - 130	49.1	98	7	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	52.4	105	65 - 130	50.3	101	4	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	50.3	101	65 - 135	46.5	93	8	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	52.1	104	65 - 130	48.3	97	8	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	52.7	105	75 - 125	49.6	99	6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	49.8	100	60 - 145	44.7	89	11	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	53.2	106	75 - 125	50.9	102	4	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	50.5	101	75 - 130	46.6	93	8	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	50.7	101	75 - 130	46.1	92	10	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	51.8	104	50 - 145	46.8	94	10	30
95-47-6	o-Xylene		0.077U	0.077	50.0	50.7	101	80 - 120	46.4	93	9	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	47.9	96	50 - 130	46.3	93	3	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	54.2	108	80 - 120	51.1	102	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	46.6	93	65 - 125	44.4	89	5	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	51.2	102	75 - 130	45.9	92	11	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	44.1	88	70 - 135	41.8	84	5	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	57.1	114	75 - 130	52.1	104	9	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	54.1	108	75 - 125	51.6	103	5	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	53.1	106	75 - 125	51.0	102	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	57.2	114	75 - 125	52.6	105	8	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	50.3	101	75 - 130	46.5	93	8	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	51.8	104	70 - 130	47.1	94	10	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	51.6	103	70 - 125	45.8	92	12	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	53.5	107	75 - 125	49.6	99	8	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	51.0	102	75 - 125	47.0	94	8	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	52.2	104	70 - 135	45.7	91	13	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	53.4	107	70 - 120	50.4	101	6	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	56.5	113	50 - 140	50.7	101	11	30
91-20-3	Naphthalene		0.175U	0.175	50.0	49.0	98	55 - 140	46.9	94	4	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	50.6	101	55 - 140	47.8	96	6	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	51.5	103	70 - 130	46.1	92	11	30
71-43-2	Benzene		0.049U	0.049	50.0	50.0	100	80 - 120	46.3	93	8	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.5	103	70 - 125	47.4	95	8	30
108-88-3	Toluene		0.078U	0.078	50.0	50.8	102	75 - 120	45.9	92	10	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	49.6	99	80 - 120	45.3	91	9	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	50	100	75 - 120	50	100		
1868-53-7	Dibromofluoromethane		49	98	50	50.4	101	85 - 115	50.5	101		
2037-26-5	Toluene d8		52.7	105	50	49.1	98	85 - 120	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	49.8	100	70 - 120	50.1	100		

Analytical Batch 456069		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/10/2011 17:58			05/10/2011 18:19			05/10/2011 18:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	51.3	103	80 - 130	50.1	100	2	30
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	50.5	101	65 - 130	49.1	98	3	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	50.6	101	65 - 130	49.4	99	2	30
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	50.6	101	75 - 125	49.7	99	2	30
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	50.0	100	70 - 135	49.2	98	2	30
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	49.0	98	70 - 130	47.0	94	4	30
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	55.3	111	75 - 130	53.2	106	4	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	45.4	91	55 - 140	45.3	91	0.2	30
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	50.7	101	75 - 125	49.2	98	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch N/A	**GCAL ID**	21105060810	21105060811	21105060812
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/10/2011 17:58	05/10/2011 18:19	05/10/2011 18:41
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	44.7	89	65 - 135	44.1	88	1	30
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	48.3	97	75 - 130	47.3	95	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	43.6	87	50 - 130	43.2	86	0.9	30
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	51.6	103	80 - 120	51.0	102	1	30
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	51.0	102	70 - 120	50.3	101	1	30
107-06-2	1,2-Dichloroethane	0.00	0.121	50.0	49.1	98	70 - 130	48.5	97	1	30
78-87-5	1,2-Dichloropropane	0.00	0.114	50.0	52.4	105	75 - 125	51.4	103	2	30
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	48.2	96	75 - 130	47.1	94	2	30
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	51.6	103	65 - 130	50.0	100	3	30
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	51.9	104	75 - 125	51.0	102	2	30
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	48.8	98	65 - 130	48.0	96	2	30
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	38.4	77	70 - 135	39.8	80	4	30
78-93-3	2-Butanone	0.00	0.235	50.0	44.7	89	30 - 150	42.2	84	6	30
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	55.3	111	75 - 125	53.8	108	3	30
591-78-6	2-Hexanone	0.00	0.302	50.0	39.7	79	55 - 130	39.0	78	2	30
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	48.3	97	75 - 130	47.2	94	2	30
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	48.2	96	75 - 130	46.3	93	4	30
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	44.8	90	60 - 135	43.4	87	3	30
67-64-1	Acetone	0.00	0.322	50.0	31.1	62	40 - 140	32.3	65	4	30
71-43-2	Benzene	0.00	0.049	50.0	48.4	97	80 - 120	46.4	93	4	30
108-86-1	Bromobenzene	0.00	0.095	50.0	51.8	104	75 - 125	51.1	102	1	30
74-97-5	Bromochloromethane	0.00	0.238	50.0	51.2	102	65 - 130	51.2	102	0	30
75-27-4	Bromodichloromethane	0.00	0.071	50.0	52.7	105	75 - 120	50.7	101	4	30
75-25-2	Bromoform	0.00	0.278	50.0	45.4	91	70 - 130	44.1	88	3	30
74-83-9	Bromomethane	0.00	0.276	50.0	43.7	87	30 - 145	45.2	90	3	30
75-15-0	Carbon disulfide	0.00	0.190	50.0	49.6	99	35 - 160	47.4	95	5	30
56-23-5	Carbon tetrachloride	0.00	0.056	50.0	51.6	103	65 - 140	50.4	101	2	30
108-90-7	Chlorobenzene	0.00	0.055	50.0	48.6	97	80 - 120	46.7	93	4	30
75-00-3	Chloroethane	0.00	0.279	50.0	52.3	105	60 - 135	50.3	101	4	30
67-66-3	Chloroform	0.00	0.062	50.0	49.8	100	65 - 135	48.2	96	3	30
74-87-3	Chloromethane	0.00	0.076	50.0	50.6	101	40 - 125	52.2	104	3	30
74-95-3	Dibromomethane	0.00	0.197	50.0	50.0	100	75 - 125	49.6	99	0.8	30
75-71-8	Dichlorodifluoromethane	0.00	0.088	50.0	51.1	102	30 - 155	49.5	99	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/10/2011 17:58			05/10/2011 18:19			05/10/2011 18:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.00	0.180	50.0	53.1	106	75 - 125	50.4	101	5	30
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	48.8	98	50 - 140	49.0	98	0.4	30
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	48.4	97	75 - 125	46.2	92	5	30
75-09-2	Methylene chloride		0.00	0.102	50.0	47.5	95	55 - 140	46.4	93	2	30
91-20-3	Naphthalene		0.00	0.175	50.0	44.0	88	55 - 140	43.7	87	0.7	30
100-42-5	Styrene		0.00	0.058	50.0	47.7	95	65 - 135	46.0	92	4	30
127-18-4	Tetrachloroethene		0.00	0.141	50.0	51.6	103	45 - 150	49.3	99	5	30
108-88-3	Toluene		6.28	0.078	50.0	54.8	97	75 - 120	52.2	92	5	30
79-01-6	Trichloroethene		0.00	0.094	50.0	49.3	99	70 - 125	47.4	95	4	30
75-69-4	Trichlorofluoromethane		0.00	0.094	50.0	49.4	99	60 - 145	46.9	94	5	30
75-01-4	Vinyl chloride		0.00	0.104	50.0	50.7	101	50 - 145	48.6	97	4	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	52.9	106	70 - 125	51.1	102	3	30
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	45.5	91	70 - 130	45.9	92	0.9	30
136777-61-2	m,p-Xylene		0.00	0.099	100	98.1	98	75 - 130	94.0	94	4	30
104-51-8	n-Butylbenzene		0.00	0.068	50.0	48.1	96	70 - 135	46.1	92	4	30
103-65-1	n-Propylbenzene		0.00	0.069	50.0	48.8	98	70 - 130	47.3	95	3	30
95-47-6	o-Xylene		0.00	0.077	50.0	49.5	99	80 - 120	47.9	96	3	30
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	48.1	96	70 - 125	46.4	93	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.084	50.0	38.7	77	65 - 125	40.0	80	3	30
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	49.2	98	70 - 130	47.1	94	4	30
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	51.4	103	60 - 140	49.0	98	5	30
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	43.6	87	55 - 140	43.7	87	0.2	30
Surrogate												
460-00-4	4-Bromofluorobenzene		48.6	97	50	50.6	101	75 - 120	49.9	100		
1868-53-7	Dibromofluoromethane		49.2	98	50	50.2	100	85 - 115	50.1	100		
2037-26-5	Toluene d8		52.3	105	50	48.8	98	85 - 120	48.1	96		
17060-07-0	1,2-Dichloroethane-d4		50.4	101	50	49.1	98	70 - 120	49	98		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078	**Client ID**	MB456078	LCS456078	LCSD456078
Prep Batch N/A	**GCAL ID**	945968	945969	945970
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	05/11/2011 08:41	05/11/2011 07:12	05/11/2011 07:57
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	61.5	123	40 - 140	60.6	121	1	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	56.5	113	65 - 130	56.1	112	0.7	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	57.1	114	75 - 120	56.8	114	0.5	30
75-25-2	Bromoform	0.278U	0.278	50.0	56.9	114	70 - 130	56.9	114	0	30
74-83-9	Bromomethane	0.276U	0.276	50.0	45.4	91	30 - 145	51.1	102	12	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	57.7	115	35 - 160	56.5	113	2	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	59.1	118	65 - 140	58.1	116	2	30
75-00-3	Chloroethane	0.279U	0.279	50.0	54.1	108	60 - 135	54.9	110	1	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	109	109	75 - 130	105	105	4	30
67-66-3	Chloroform	0.062U	0.062	50.0	56.6	113	65 - 135	56.0	112	1	30
74-87-3	Chloromethane	0.076U	0.076	50.0	47.0	94	40 - 125	49.5	99	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	55.0	110	75 - 125	54.4	109	1	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	51.1	102	30 - 155	50.8	102	0.6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	56.2	112	70 - 135	55.1	110	2	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.2	110	70 - 130	54.0	108	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	56.5	113	70 - 125	55.1	110	3	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	56.8	114	60 - 140	54.9	110	3	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	52.4	105	55 - 140	51.4	103	2	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	57.2	114	75 - 125	55.1	110	4	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	55.4	111	70 - 130	55.3	111	0.2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	57.0	114	55 - 140	56.3	113	1	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	53.6	107	75 - 125	52.5	105	2	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	57.6	115	55 - 130	56.2	112	2	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	55.7	111	75 - 125	53.9	108	3	30
78-93-3	2-Butanone	0.235U	0.235	50.0	54.1	108	30 - 150	54.0	108	0.2	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	52.9	106	60 - 135	54.0	108	2	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	54.8	110	70 - 130	54.9	110	0.2	30
100-42-5	Styrene	0.058U	0.058	50.0	54.4	109	65 - 135	53.5	107	2	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.7	107	45 - 150	52.3	105	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	54.9	110	80 - 130	54.2	108	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	52.7	105	65 - 130	54.4	109	3	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	56.1	112	65 - 135	58.4	117	4	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	56.9	114	65 - 130	55.5	111	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078		**Client ID**	MB456078			LCS456078			LCSD456078		
Prep Batch N/A		**GCAL ID**	945968			945969			945970		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/11/2011 08:41			05/11/2011 07:12			05/11/2011 07:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	52.3	105	75 - 125	51.9	104	0.8	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	55.9	112	60 - 145	54.5	109	3	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	53.3	107	75 - 125	54.4	109	2	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	54.6	109	75 - 130	55.2	110	1	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	54.7	109	75 - 130	54.8	110	0.2	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	55.5	111	50 - 145	53.7	107	3	30
95-47-6	o-Xylene		0.077U	0.077	50.0	53.8	108	80 - 120	52.9	106	2	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	51.4	103	50 - 130	54.5	109	6	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	52.3	105	80 - 120	51.5	103	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	48.6	97	65 - 125	49.1	98	1	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	57.0	114	75 - 130	57.3	115	0.5	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	50.4	101	70 - 135	49.3	99	2	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	57.0	114	75 - 130	55.6	111	2	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	52.3	105	75 - 125	51.6	103	1	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.5	105	75 - 125	53.2	106	1	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	54.0	108	75 - 125	54.5	109	0.9	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	53.6	107	75 - 130	54.1	108	0.9	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	54.9	110	70 - 130	54.8	110	0.2	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	56.0	112	70 - 125	56.1	112	0.2	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	55.0	110	75 - 125	55.5	111	0.9	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	54.1	108	75 - 125	54.9	110	1	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	57.6	115	70 - 135	58.2	116	1	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	54.2	108	70 - 120	55.3	111	2	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	55.0	110	50 - 140	59.6	119	8	30
91-20-3	Naphthalene		0.175U	0.175	50.0	54.2	108	55 - 140	57.5	115	6	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.7	111	55 - 140	58.3	117	5	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	55.5	111	70 - 130	54.6	109	2	30
71-43-2	Benzene		0.049U	0.049	50.0	55.3	111	80 - 120	54.0	108	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	55.9	112	70 - 125	55.0	110	2	30
108-88-3	Toluene		0.078U	0.078	50.0	52.4	105	75 - 120	51.0	102	3	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	52.8	106	80 - 120	51.6	103	2	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	51.1	102	75 - 120	50.3	101		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078		**Client ID**	MB456078			LCS456078			LCSD456078		
Prep Batch N/A		**GCAL ID**	945968			945969			945970		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/11/2011 08:41			05/11/2011 07:12			05/11/2011 07:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		50.3	101	50	51.2	102	85 - 115	51.4	103		
2037-26-5	Toluene d8		50.1	100	50	49.1	98	85 - 120	48.1	96		
17060-07-0	1,2-Dichloroethane-d4		51.1	102	50	51.3	103	70 - 120	50.9	102		

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	48.3	97	40 - 140	46.6	93	4	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	49.4	99	65 - 130	54.5	109	10	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	48.5	97	75 - 120	48.8	98	0.6	30
75-25-2	Bromoform		0.278U	0.278	50.0	51.4	103	70 - 130	55.1	110	7	30
74-83-9	Bromomethane		0.276U	0.276	50.0	45.6	91	30 - 145	48.4	97	6	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	48.1	96	35 - 160	49.0	98	2	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.1	96	65 - 140	52.1	104	8	30
75-00-3	Chloroethane		0.279U	0.279	50.0	45.4	91	60 - 135	47.2	94	4	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	98.5	99	75 - 130	102	102	3	30
67-66-3	Chloroform		0.062U	0.062	50.0	46.7	93	65 - 135	50.1	100	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	44.2	88	40 - 125	46.3	93	5	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	49.9	100	75 - 125	48.2	96	3	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	45.7	91	30 - 155	46.0	92	0.7	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	50.4	101	70 - 135	50.1	100	0.6	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	46.9	94	70 - 130	48.4	97	3	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	46.2	92	70 - 125	49.3	99	6	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	46.9	94	60 - 140	50.8	102	8	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	46.3	93	55 - 140	43.8	88	6	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	49.4	99	75 - 125	47.1	94	5	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	49.3	99	70 - 130	50.5	101	2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	51.5	103	55 - 140	52.8	106	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	47.6	95	75 - 125	50.1	100	5	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	48.0	96	55 - 130	50.0	100	4	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	51.1	102	75 - 125	50.9	102	0.4	30
78-93-3	2-Butanone		0.235U	0.235	50.0	43.8	88	30 - 150	49.1	98	11	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	43.9	88	60 - 135	45.0	90	2	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.8	104	70 - 130	49.0	98	6	30
100-42-5	Styrene		0.058U	0.058	50.0	49.8	100	65 - 135	52.4	105	5	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	48.0	96	45 - 150	51.2	102	6	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	49.4	99	80 - 130	51.9	104	5	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	50.9	102	65 - 130	47.0	94	8	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	45.5	91	65 - 135	52.2	104	14	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	47.4	95	65 - 130	51.1	102	8	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	47.2	94	75 - 125	50.1	100	6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	47.3	95	60 - 145	48.2	96	2	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	55.0	110	75 - 125	51.5	103	7	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	51.8	104	75 - 130	50.7	101	2	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.9	106	75 - 130	50.5	101	5	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	47.4	95	50 - 145	47.5	95	0.2	30
95-47-6	o-Xylene		0.077U	0.077	50.0	48.9	98	80 - 120	51.7	103	6	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	46.0	92	50 - 130	48.3	97	5	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	47.9	96	80 - 120	50.8	102	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	55.0	110	65 - 125	60.5	121	10	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	51.0	102	75 - 130	51.9	104	2	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	58.6	117	70 - 135	61.8	124	5	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	47.3	95	75 - 130	53.2	106	12	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	46.8	94	75 - 125	50.1	100	7	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	51.2	102	75 - 125	47.5	95	7	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.6	103	75 - 125	48.4	97	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	52.1	104	75 - 130	48.8	98	7	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	49.0	98	70 - 130	50.8	102	4	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	50.7	101	70 - 125	51.0	102	0.6	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	51.3	103	75 - 125	49.5	99	4	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	47.6	95	75 - 125	49.6	99	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	46.7	93	70 - 135	54.1	108	15	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	47.7	95	70 - 120	49.6	99	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	42.8	86	50 - 140	53.5	107	22	30
91-20-3	Naphthalene		0.175U	0.175	50.0	47.3	95	55 - 140	52.5	105	10	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	44.7	89	55 - 140	55.2	110	21	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.3	97	70 - 130	49.4	99	2	30
71-43-2	Benzene		0.049U	0.049	50.0	45.5	91	80 - 120	52.0	104	13	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	52.1	104	70 - 125	52.2	104	0.2	30
108-88-3	Toluene		0.078U	0.078	50.0	46.2	92	75 - 120	48.4	97	5	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.1	94	80 - 120	49.3	99	5	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.5	101	50	57.6	115	75 - 120	52.7	105		
1868-53-7	Dibromofluoromethane		49.5	99	50	47.5	95	85 - 115	50.7	101		
2037-26-5	Toluene d8		52	104	50	48.8	98	85 - 120	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		46.3	93	50	47.9	96	70 - 120	47.5	95		

General Chromatography Quality Control Summary

Analytical Batch	456236	**Client ID**	MB455907	LCS455907	LCSD455907
Prep Batch	455907	**GCAL ID**	945242	945243	945244
Prep Method	SW-846 8330A	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/12/2011 04:50	05/12/2011 05:37	05/12/2011 06:24
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
2691-41-0	HMX	0.018U	0.018	2.00	1.40	**70***	80 - 115	1.50	**75***	7	30
121-82-4	RDX	0.033U	0.033	2.00	1.10	55	50 - 160	1.23	62	11	30
99-35-4	1,3,5-Trinitrobenzene	0.070U	0.070	2.00	1.31	66	65 - 140	1.55	78	17	30
99-65-0	1,3-Dinitrobenzene	0.126U	0.126	2.00	1.38	69	45 - 160	1.62	81	16	30
479-45-8	Tetryl	0.100U	0.100	2.00	1.89	95	20 - 175	2.12	106	11	30
98-95-3	Nitrobenzene	0.068U	0.068	2.00	1.42	71	50 - 140	1.65	83	15	30
118-96-7	2,4,6-Trinitrotoluene	0.152U	0.152	2.00	1.32	66	50 - 145	1.56	78	17	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.054U	0.054	2.00	1.30	65	55 - 155	1.45	73	11	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.063U	0.063	2.00	1.32	66	50 - 155	1.53	77	15	30
121-14-2	2,4-Dinitrotoluene	0.063U	0.063	2.00	1.29	65	60 - 135	1.56	78	19	30
606-20-2	2,6-Dinitrotoluene	0.054U	0.054	2.00	1.39	70	60 - 135	1.70	85	20	30
88-72-2	2-Nitrotoluene	0.045U	0.045	2.00	1.49	75	45 - 135	1.78	89	18	30
99-08-1	3-Nitrotoluene	0.054U	0.054	2.00	1.18	59	50 - 130	1.52	76	25	30
99-99-0	4-Nitrotoluene	0.058U	0.058	2.00	1.31	66	50 - 130	1.56	78	17	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.89	95	2	1.86	93	70 - 130	1.98	99		

Analytical Batch	456236	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455907	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 8330A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/13/2011 03:31	05/12/2011 11:53	05/12/2011 12:40
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
99-35-4	1,3,5-Trinitrobenzene	0.00	0.146	2.22	3.24	**146***	65 - 140	3.18	**156***	2	30
99-65-0	1,3-Dinitrobenzene	0.00	0.265	2.22	3.54	159	45 - 160	3.44	**169***	3	30
118-96-7	2,4,6-Trinitrotoluene	0.00	0.319	2.22	3.45	**155***	50 - 145	3.33	**163***	4	30
121-14-2	2,4-Dinitrotoluene	0.00	0.132	2.22	3.40	**153***	60 - 135	3.28	**161***	4	30
606-20-2	2,6-Dinitrotoluene	0.00	0.114	2.22	3.53	**159***	60 - 135	3.43	**168***	3	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.00	0.132	2.22	3.36	151	50 - 155	3.24	**159***	4	30

General Chromatography Quality Control Summary

Analytical Batch	456236	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455907	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	8330A	**Prep Date**	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/13/2011 03:31	05/12/2011 11:53	05/12/2011 12:40
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**			**Control**				
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
88-72-2	2-Nitrotoluene	0.00	0.094	2.22	4.28	**193***	45 - 135	4.09	**200***	5	30
99-08-1	3-Nitrotoluene	0.00	0.113	2.22	3.60	**162***	50 - 130	3.46	**170***	4	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.00	0.114	2.22	3.28	148	55 - 155	3.21	**157***	2	30
99-99-0	4-Nitrotoluene	0.00	0.122	2.22	3.76	**169***	50 - 130	3.62	**177***	4	30
2691-41-0	HMX	0.00	0.037	2.22	2.79	**126***	80 - 115	2.71	**133***	3	30
98-95-3	Nitrobenzene	0.00	0.143	2.22	3.60	**162***	50 - 140	3.39	**166***	6	30
121-82-4	RDX	0.00	0.069	2.22	2.88	130	50 - 160	3.01	147	4	30
479-45-8	Tetryl	0.00	0.211	2.22	4.11	**185***	20 - 175	4.23	**207***	3	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.94	92	2.22	1.79	81	70 - 130	1.69	83		

Analytical Batch	456789	**Client ID**	MB456405	LCS456405	LCSD456405
Prep Batch	456405	**GCAL ID**	947522	947523	947524
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	8330A	**Prep Date**	05/18/2011 09:00	05/18/2011 09:00	05/18/2011 09:00
		Analytical Date	05/20/2011 13:01	05/20/2011 13:48	05/20/2011 14:35
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**			**Control**				
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
2691-41-0	HMX	0.018U	0.018	2.00	1.54	**77***	80 - 115	1.50	**75***	3	30
121-82-4	RDX	0.033U	0.033	2.00	1.34	67	50 - 160	1.29	65	4	30
99-35-4	1,3,5-Trinitrobenzene	0.070U	0.070	2.00	1.66	83	65 - 140	1.63	82	2	30
99-65-0	1,3-Dinitrobenzene	0.126U	0.126	2.00	1.76	88	45 - 160	1.70	85	3	30
479-45-8	Tetryl	0.100U	0.100	2.00	2.30	115	20 - 175	2.29	115	0.4	30
98-95-3	Nitrobenzene	0.068U	0.068	2.00	1.71	86	50 - 140	1.66	83	3	30
118-96-7	2,4,6-Trinitrotoluene	0.152U	0.152	2.00	1.62	81	50 - 145	1.57	79	3	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.054U	0.054	2.00	1.59	80	55 - 155	1.51	76	5	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.063U	0.063	2.00	1.57	79	50 - 155	1.56	78	0.6	30
121-14-2	2,4-Dinitrotoluene	0.063U	0.063	2.00	1.71	86	60 - 135	1.60	80	7	30
606-20-2	2,6-Dinitrotoluene	0.054U	0.054	2.00	1.90	95	60 - 135	1.76	88	8	30
88-72-2	2-Nitrotoluene	0.045U	0.045	2.00	2.01	101	45 - 135	1.99	100	1	30

General Chromatography Quality Control Summary

Analytical Batch	456789	**Client ID**	MB456405	LCS456405	LCSD456405
Prep Batch	456405	**GCAL ID**	947522	947523	947524
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	8330A	**Prep Date**	05/18/2011 09:00	05/18/2011 09:00	05/18/2011 09:00
		Analytical Date	05/20/2011 13:01	05/20/2011 13:48	05/20/2011 14:35
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
99-08-1	3-Nitrotoluene	0.054U	0.054	2.00	1.69	85	50 - 130	1.64	82	3	30
99-99-0	4-Nitrotoluene	0.058U	0.058	2.00	1.77	89	50 - 130	1.74	87	2	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	2.19	110	2	2.24	112	70 - 130	2.18	109		

Inorganics Quality Control Summary

Analytical Batch	456386	**Client ID**	MB456158		LCS456158		
Prep Batch	456158	**GCAL ID**	946277		946278		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 14:17		05/16/2011 14:19		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.99	100	80 - 120

Analytical Batch	456386	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD				
Prep Batch	456158	**GCAL ID**	21105060810		21105060811			21105060812				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30				
	Dissolved	**Analytical Date**	05/16/2011 14:20		05/16/2011 14:22			05/16/2011 14:23				
		Matrix	Water		Water			Water				
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.081	5.00	4.66	93	80 - 120	4.80	96	3	30	

Analytical Batch	456775	**Client ID**	MB456483		LCS456483							
Prep Batch	456483	**GCAL ID**	947877		947878							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	05/18/2011 10:30		05/18/2011 10:30							
		Analytical Date	05/20/2011 12:33		05/20/2011 12:35							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.081U	0.081	5.00	4.29	86	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	456775	**Client ID**	MWQ23			947763MS			947763MSD			
Prep Batch	456483	**GCAL ID**	21105170902			947879			947880			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30			
		Analytical Date	05/20/2011 12:37			05/20/2011 12:38			05/20/2011 12:40			
		Matrix	Water			Water			Water			
SW-846 7470A		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081		5.00	4.49	90	75 - 125	4.46	89	0.6	30

Inorganics Quality Control Summary

Analytical Batch	456383	**Client ID**	MB455984		LCS455984		
Prep Batch	455984	**GCAL ID**	945531		945532		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 13:39		05/16/2011 13:41		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.89	98	80 - 120

Analytical Batch	456383	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD				
Prep Batch	455984	**GCAL ID**	21105060810		21105060811			21105060812				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30				
		Analytical Date	05/16/2011 13:43		05/16/2011 13:44			05/16/2011 13:46				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.78	96	80 - 120	4.80	96	0.3		30

Analytical Batch	456775	**Client ID**	MB456483		LCS456483		
Prep Batch	456483	**GCAL ID**	947877		947878		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/18/2011 10:30		05/18/2011 10:30		
		Analytical Date	05/20/2011 12:33		05/20/2011 12:35		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.29	86	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456775	**Client ID**	MWQ23			947763MS			947763MSD			
Prep Batch	456483	**GCAL ID**	21105170902			947879			947880			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30			
		Analytical Date	05/20/2011 12:37			05/20/2011 12:38			05/20/2011 12:40			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.081	5.00	4.49	90	80 - 120	4.46	89	0.6	30

Inorganics Quality Control Summary

Analytical Batch	456794	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456553	**GCAL ID**	21105170901			948159			948160		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/20/2011 23:29			05/20/2011 23:36			05/20/2011 23:44		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium		491000	200	20000	531000	**200***	80 - 120	532000	**206***	0.2	30

Analytical Batch	457016	**Client ID**	MB455827			LCS455827		
Prep Batch	455827	**GCAL ID**	944933			944934		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/24/2011 19:49			05/24/2011 19:57		
		Matrix	Water			Water		
SW-846 6010C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4700	94	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	463	93	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	455	91	80 - 120
7440-39-3	Barium		1.87J	0.11	500	479	96	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	466	93	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	466	93	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4640	93	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	473	95	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	468	94	80 - 120
7440-50-8	Copper		1.37U	1.37	500	471	94	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	4610	92	80 - 120
7439-92-1	Lead		1.39U	1.39	500	467	93	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	4590	92	80 - 120
7439-96-5	Manganese		3.24J	2.00	500	474	95	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	474	95	80 - 120
7440-02-0	Nickel		0.96U	0.96	500	477	95	80 - 120
7440-09-7	Potassium		100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium		4.34U	4.34	500	464	93	80 - 120
7440-22-4	Silver		0.60U	0.60	500	470	94	80 - 120
7440-23-5	Sodium		200U	200	20000	18100	91	80 - 120
7440-28-0	Thallium		1.75U	1.75	500	466	93	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455827	LCS455827
Prep Batch	455827	**GCAL ID**	944933	944934
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 19:49	05/24/2011 19:57
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	467	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Analytical Batch	457016	**Client ID**	MB456553	LCS456553
Prep Batch	456553	**GCAL ID**	948157	948158
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:26	05/24/2011 23:34
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4870	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	472	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	464	93	80 - 120
7440-39-3	Barium	4.09J	0.11	500	477	95	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	473	95	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	468	94	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4740	95	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	478	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	478	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	481	96	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4800	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	477	95	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4750	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	477	95	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	482	96	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	481	96	80 - 120
7440-09-7	Potassium	100U	100	10000	10000	100	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	478	96	80 - 120
7440-22-4	Silver	0.60U	0.60	500	481	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456553	LCS456553
Prep Batch	456553	**GCAL ID**	948157	948158
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:26	05/24/2011 23:34
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	509J	200	20000	20400	102	80 - 120
7440-28-0	Thallium	2.07J	1.75	500	474	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	473	95	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	471	94	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	276	60.0	5000	5230	99	80 - 120	5210	99	0.5	30
7440-36-0	Antimony	0.0	4.03	500	515	103	80 - 120	508	102	1	30
7440-38-2	Arsenic	0.0	2.53	500	517	103	80 - 120	508	102	2	30
7440-41-7	Beryllium	0.0	0.11	500	496	99	80 - 120	498	100	0.3	30
7440-43-9	Cadmium	0.0	0.20	500	483	97	80 - 120	484	97	0.03	30
7440-70-2	Calcium	49700	50.0	5000	54200	90	80 - 120	54700	100	0.9	30
7440-47-3	Chromium	8.54	1.00	500	483	95	80 - 120	485	95	0.5	30
7440-48-4	Cobalt	0.0	1.00	500	496	99	80 - 120	488	98	2	30
7440-50-8	Copper	14.3	1.37	500	517	101	80 - 120	519	101	0.3	30
7439-89-6	Iron	204	40.0	5000	5090	98	80 - 120	5010	96	2	30
7439-92-1	Lead	0.0	1.39	500	484	97	80 - 120	478	96	1	30
7439-95-4	Magnesium	48700	50.0	5000	53100	87	80 - 120	52100	**68***	2	30
7439-96-5	Manganese	12.6	2.00	500	503	98	80 - 120	504	98	0.2	30
7439-98-7	Molybdenum	4.94	3.75	500	513	102	80 - 120	509	101	0.7	30
7440-02-0	Nickel	2.96	0.96	500	494	98	80 - 120	487	97	1	30
7440-09-7	Potassium	7780	100	10000	18000	102	80 - 120	17800	100	1	30
7782-49-2	Selenium	0.0	4.34	500	511	102	80 - 120	499	100	2	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-22-4	Silver	0.0	0.60	500	492	98	80 - 120	494	99	0.4	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	470	94	2	30
7440-32-6	Titanium	3.16	1.20	500	491	97	80 - 120	495	98	0.9	30
7440-62-2	Vanadium	61.1	3.75	500	562	100	80 - 120	563	100	0.3	30
7440-66-6	Zinc	2.74	2.72	500	507	101	80 - 120	509	101	0.5	30

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456553	**GCAL ID**	21105170901	948159	948160
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:41	05/24/2011 23:49	05/24/2011 23:55
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	54.9	60.0	5000	4880	97	80 - 120	4760	94	3	30
7440-36-0	Antimony	102	4.03	500	508	81	80 - 120	504	80	0.8	30
7440-38-2	Arsenic	0.0	2.53	500	507	101	80 - 120	498	100	2	30
7440-39-3	Barium	17.6	0.11	500	501	97	80 - 120	496	96	1	30
7440-41-7	Beryllium	0.0	0.11	500	497	99	80 - 120	493	99	0.8	30
7440-43-9	Cadmium	0.0	0.20	500	484	97	80 - 120	477	95	1	30
7440-70-2	Calcium	35100	50.0	5000	41900	**135***	80 - 120	41200	**122***	2	30
7440-47-3	Chromium	3.05	1.00	500	479	95	80 - 120	474	94	1	30
7440-48-4	Cobalt	0.0	1.00	500	492	98	80 - 120	484	97	2	30
7440-50-8	Copper	11.0	1.37	500	518	101	80 - 120	515	101	0.5	30
7439-89-6	Iron	0.0	40.0	5000	4880	98	80 - 120	4750	95	3	30
7439-92-1	Lead	0.0	1.39	500	483	97	80 - 120	470	94	3	30
7439-95-4	Magnesium	34200	50.0	5000	41000	**137***	80 - 120	39400	106	4	30
7439-96-5	Manganese	2.76	2.00	500	493	98	80 - 120	488	97	1	30
7439-98-7	Molybdenum	7.44	3.75	500	514	101	80 - 120	506	100	2	30
7440-02-0	Nickel	0.0	0.96	500	489	98	80 - 120	488	98	0.2	30
7440-09-7	Potassium	6860	100	10000	17600	107	80 - 120	17200	103	3	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456553	**GCAL ID**	21105170901			948159			948160		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/24/2011 23:41			05/24/2011 23:49			05/24/2011 23:55		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7782-49-2	Selenium	5.87	4.34		500	505	100	80 - 120	496	98	2	30
7440-22-4	Silver	0.0	0.60		500	492	98	80 - 120	488	98	0.7	30
7440-28-0	Thallium	0.0	1.75		500	472	94	80 - 120	472	94	0.008	30
7440-62-2	Vanadium	50.8	3.75		500	552	100	80 - 120	548	99	0.7	30
7440-66-6	Zinc	20.1	2.72		500	509	98	80 - 120	502	96	1	30
7440-32-6	Titanium	0.0	1.20		500	491	98	80 - 120	491	98	0.06	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 19:35			05/25/2011 19:42			05/25/2011 19:49		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	567000	1000		20000	594000	**132***	80 - 120	594000	**131***	0.05	30

Analytical Batch	457290	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/27/2011 14:54			05/27/2011 15:01			05/27/2011 15:08		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium	27.8	0.11		500	513	97	80 - 120	515	97	0.5	30

Inorganics Quality Control Summary

Analytical Batch	456794	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456484	**GCAL ID**	21105170901			947883			947884		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/20/2011 22:01			05/20/2011 22:09			05/20/2011 22:16		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		527000	200	20000	520000	**-40***	80 - 120	542000	**74***	4	20

Analytical Batch	457016	**Client ID**	MB455823			LCS455823		
Prep Batch	455823	**GCAL ID**	944905			944906		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/24/2011 17:39			05/24/2011 17:46		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	5030	101	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	493	99	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	496	99	80 - 120
7440-39-3	Barium		3.16J	0.11	500	499	100	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	498	100	80 - 120
7440-43-9	Cadmium		0.45J	0.20	500	500	100	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4990	100	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	495	99	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper		1.37U	1.37	500	494	99	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	4970	99	80 - 120
7439-92-1	Lead		1.39U	1.39	500	497	99	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	4970	99	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	498	100	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	491	98	80 - 120
7440-02-0	Nickel		0.96U	0.96	500	497	99	80 - 120
7440-09-7	Potassium		100U	100	10000	10100	101	80 - 120
7782-49-2	Selenium		4.34U	4.34	500	503	101	80 - 120
7440-22-4	Silver		0.60U	0.60	500	502	100	80 - 120
7440-23-5	Sodium		200U	200	20000	19000	95	80 - 120
7440-28-0	Thallium		1.75U	1.75	500	493	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455823	LCS455823
Prep Batch	455823	**GCAL ID**	944905	944906
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:39	05/24/2011 17:46
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	491	98	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	507	101	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	496	99	80 - 120

Analytical Batch	457016	**Client ID**	MB456484	LCS456484
Prep Batch	456484	**GCAL ID**	947881	947882
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:15	05/24/2011 22:23
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4850	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	473	95	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	470	94	80 - 120
7440-39-3	Barium	1.53J	0.11	500	480	96	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	483	97	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	480	96	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4720	94	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	482	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	479	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	483	97	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4760	95	80 - 120
7439-92-1	Lead	1.39U	1.39	500	478	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4730	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	482	96	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	475	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	489	98	80 - 120
7440-09-7	Potassium	100U	100	10000	10000	100	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	490	98	80 - 120
7440-22-4	Silver	0.60U	0.60	500	487	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456484	LCS456484
Prep Batch	456484	**GCAL ID**	947881	947882
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:15	05/24/2011 22:23
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	889J	200	20000	20800	104	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	475	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	478	96	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	485	97	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	105	60.0	5000	5040	99	80 - 120	4850	95	4	30
7440-36-0	Antimony	0.0	4.03	500	535	107	80 - 120	518	104	3	30
7440-38-2	Arsenic	0.0	2.53	500	552	110	80 - 120	518	104	6	30
7440-39-3	Barium	18.0	0.11	500	524	101	80 - 120	496	96	5	30
7440-41-7	Beryllium	0.0	0.11	500	522	104	80 - 120	495	99	5	30
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	483	97	6	30
7440-70-2	Calcium	50800	50.0	5000	56100	105	80 - 120	54000	**64***	4	30
7440-47-3	Chromium	2.24	1.00	500	498	99	80 - 120	474	94	5	30
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	490	98	4	30
7440-50-8	Copper	13.4	1.37	500	535	104	80 - 120	509	99	5	30
7439-89-6	Iron	46.6	40.0	5000	5030	100	80 - 120	4870	96	3	30
7439-92-1	Lead	0.0	1.39	500	501	100	80 - 120	478	96	5	30
7439-95-4	Magnesium	50100	50.0	5000	54200	82	80 - 120	53200	**63***	2	30
7439-96-5	Manganese	2.16	2.00	500	515	103	80 - 120	488	97	5	30
7439-98-7	Molybdenum	5.66	3.75	500	526	104	80 - 120	510	101	3	30
7440-02-0	Nickel	0.0	0.96	500	507	101	80 - 120	486	97	4	30
7440-09-7	Potassium	7880	100	10000	18200	104	80 - 120	17800	99	2	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7782-49-2	Selenium	0.0	4.34	500	540	108	80 - 120	514	103	5	30
7440-22-4	Silver	0.0	0.60	500	518	104	80 - 120	491	98	5	30
7440-28-0	Thallium	0.0	1.75	500	498	100	80 - 120	477	95	4	30
7440-32-6	Titanium	1.53	1.20	500	507	101	80 - 120	486	97	4	30
7440-62-2	Vanadium	58.3	3.75	500	581	105	80 - 120	553	99	5	30
7440-66-6	Zinc	0.0	2.72	500	532	106	80 - 120	506	101	5	30

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456484	**GCAL ID**	21105170901	947883	947884
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:29	05/24/2011 22:37	05/24/2011 22:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	164	60.0	5000	4930	95	80 - 120	5140	100	4	20
7440-36-0	Antimony	0.0	4.03	500	505	101	80 - 120	520	104	3	20
7440-38-2	Arsenic	0.0	2.53	500	515	103	80 - 120	522	104	1	20
7440-39-3	Barium	16.5	0.11	500	497	96	80 - 120	513	99	3	20
7440-41-7	Beryllium	0.0	0.11	500	498	100	80 - 120	515	103	3	20
7440-43-9	Cadmium	0.0	0.20	500	484	97	80 - 120	499	100	3	20
7440-70-2	Calcium	37400	50.0	5000	40800	**68***	80 - 120	42600	103	4	20
7440-47-3	Chromium	2.09	1.00	500	477	95	80 - 120	492	98	3	20
7440-48-4	Cobalt	0.0	1.00	500	491	98	80 - 120	502	100	2	20
7440-50-8	Copper	11.6	1.37	500	519	101	80 - 120	533	104	3	20
7439-89-6	Iron	0.0	40.0	5000	4800	96	80 - 120	5020	100	5	20
7439-92-1	Lead	0.0	1.39	500	480	96	80 - 120	490	98	2	20
7439-95-4	Magnesium	36700	50.0	5000	39500	**57***	80 - 120	41700	100	5	20
7439-96-5	Manganese	0.0	2.00	500	490	98	80 - 120	506	101	3	20
7439-98-7	Molybdenum	8.79	3.75	500	505	99	80 - 120	517	102	2	20
7440-02-0	Nickel	0.0	0.96	500	489	98	80 - 120	498	100	2	20

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456484	**GCAL ID**	21105170901	947883	947884
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:29	05/24/2011 22:37	05/24/2011 22:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-09-7	Potassium	7280	100	10000	17200	99	80 - 120	18200	109	6	20
7782-49-2	Selenium	0.0	4.34	500	512	102	80 - 120	522	104	2	20
7440-22-4	Silver	0.0	0.60	500	495	99	80 - 120	514	103	4	20
7440-28-0	Thallium	0.0	1.75	500	475	95	80 - 120	486	97	2	20
7440-62-2	Vanadium	53.4	3.75	500	551	100	80 - 120	566	103	3	20
7440-66-6	Zinc	0.0	2.72	500	510	102	80 - 120	526	105	3	20
7440-32-6	Titanium	0.0	1.20	500	485	97	80 - 120	500	100	3	20

Analytical Batch	457118	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/25/2011 16:46	05/25/2011 16:54	05/25/2011 17:01
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium	588000	1000	20000	620000	**158***	80 - 120	585000	**-20***	6	30

General Chemistry Quality Control Summary

Analytical Batch 455813	**Client ID**	MB455813			LCS455813		
Prep Batch N/A	**GCAL ID**	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	**Client ID**	MW-10		944726DUP		
Prep Batch N/A	**GCAL ID**	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1480	10.0	1480	0.41	5

Analytical Batch 455925	**Client ID**	MB455925			LCS455925		
Prep Batch N/A	**GCAL ID**	945345			945346		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/09/2011 10:15			05/09/2011 10:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1040	104	80 - 120

Analytical Batch 455925	**Client ID**	U43010B		945308DUP		
Prep Batch N/A	**GCAL ID**	21105091101		945347		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 10:15		05/09/2011 10:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3360	10.0	3360	0	5

General Chemistry Quality Control Summary

Analytical Batch 455925	**Client ID**	PZP12		PZP12 DUP		
Prep Batch N/A	**GCAL ID**	21105094605		21105094611		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 18:45		05/09/2011 18:45		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035 Total Dissolved Solids(TDS)		762	10.0	736	3.5	5

Analytical Batch 456092	**Client ID**	MB456092			LCS456092		
Prep Batch N/A	**GCAL ID**	946016			946017		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 15:15			05/11/2011 15:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	950	95	80 - 120

Analytical Batch 456092	**Client ID**	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	**GCAL ID**	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/11/2011 15:15		05/11/2011 15:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035 Total Dissolved Solids(TDS)		1980	10.0	1970	0.51	5

Analytical Batch 456522	**Client ID**	MB456522			LCS456522		
Prep Batch N/A	**GCAL ID**	948025			948026		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 15:20			05/17/2011 15:20		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1040	104	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456522	**Client ID**	U43010B		947808DUP		
Prep Batch N/A	**GCAL ID**	21105171503		948027		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/17/2011 15:20		05/17/2011 15:20		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3530	10.0	3470	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 455837	**Client ID**	MB455837			LCS455837		
Prep Batch N/A	**GCAL ID**	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.498	100	89.5 -110.5

Analytical Batch 455837	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

Analytical Batch 455838	**Client ID**	MB455838			LCS455838		
Prep Batch N/A	**GCAL ID**	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	ND	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 455838	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

General Chemistry Quality Control Summary

Analytical Batch 455918	**Client ID**	MB455918			LCS455918		
Prep Batch N/A	**GCAL ID**	945319			945320		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 10:31			05/07/2011 10:33		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.539	108	89.5 -110.5

Analytical Batch 455918	**Client ID**	M114MW002			945264MS			945264MSD			
Prep Batch N/A	**GCAL ID**	21105060805			945321			945322			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 10:35			05/07/2011 10:36			05/07/2011 10:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.375	0.003	0.500	0.839	93	89.5 -110.5	0.838	93	0.1	25

Analytical Batch 455919	**Client ID**	MB455919			LCS455919		
Prep Batch N/A	**GCAL ID**	945323			945324		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 11:10			05/07/2011 11:13		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0 Nitrite		0.003U	0.003	0.500	0.503	101	89.5 -110.5

Analytical Batch 455919	**Client ID**	M114MW002			945264MS			945264MSD			
Prep Batch N/A	**GCAL ID**	21105060805			945325			945326			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 11:14			05/07/2011 11:15			05/07/2011 11:16			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0 Nitrite		0.004	0.003	0.500	0.468	93	89.5 -110.5	0.468	93	0.02	25

General Chemistry Quality Control Summary

Analytical Batch 456027	**Client ID**	MB456027			LCS456027		
Prep Batch N/A	**GCAL ID**	945750			945751		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 13:25			05/10/2011 13:27		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.488	98	89.5 -110.5

Analytical Batch 456027	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 13:37			05/10/2011 13:41			05/10/2011 13:42			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.233	0.003	0.500	0.728	99	89.5 -110.5	0.729	99	0.1	25

Analytical Batch 456033	**Client ID**	MB456033			LCS456033		
Prep Batch N/A	**GCAL ID**	945765			945766		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 14:22			05/10/2011 14:23		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.004J	0.003	0.500	0.506	101	89.5 -110.5

Analytical Batch 456033	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 14:32			05/10/2011 14:36			05/10/2011 14:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.004	0.003	0.500	0.488	97	89.5 -110.5	0.479	95	2	25

General Chemistry Quality Control Summary

Analytical Batch 456084	**Client ID**	MB456084			LCS456084		
Prep Batch N/A	**GCAL ID**	945983			945984		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:25			05/11/2011 08:26		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.473	95	89.5 -110.5

Analytical Batch 456084	**Client ID**	M114MW001			945961MS			945961MSD			
Prep Batch N/A	**GCAL ID**	21105060815			945985			945986			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:34			05/11/2011 08:35			05/11/2011 08:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.901	0.013	2.50	3.21	93	89.5 -110.5	3.19	92	0.6	25

Analytical Batch 456085	**Client ID**	MB456085			LCS456085		
Prep Batch N/A	**GCAL ID**	945987			945988		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:48			05/11/2011 08:49		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.511	102	89.5 -110.5

Analytical Batch 456085	**Client ID**	M114MW001			945961MS			945961MSD			
Prep Batch N/A	**GCAL ID**	21105060815			945989			945990			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:50			05/11/2011 08:52			05/11/2011 08:53			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.486	97	89.5 -110.5	0.491	98	0.9	25

General Chemistry Quality Control Summary

Analytical Batch 456516	**Client ID**	MB456516			LCS456516		
Prep Batch N/A	**GCAL ID**	948012			948013		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 15:56			05/17/2011 15:57		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.543	108	89.5 -110.5

Analytical Batch 456516	**Client ID**	MAO1MW002			947762MS			947762MSD			
Prep Batch N/A	**GCAL ID**	21105170901			948014			948015			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/17/2011 16:00			05/17/2011 16:01			05/17/2011 16:02			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.325	0.003	0.500	0.775	90	89.5 -110.5	0.776	90	0.1	25

Analytical Batch 456519	**Client ID**	MB456519			LCS456519		
Prep Batch N/A	**GCAL ID**	948018			948019		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 16:24			05/17/2011 16:25		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.477	95	89.5 -110.5

Analytical Batch 456519	**Client ID**	MAO1MW002			947762MS			947762MSD			
Prep Batch N/A	**GCAL ID**	21105170901			948020			948021			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/17/2011 16:26			05/17/2011 16:27			05/17/2011 16:29			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.479	96	89.5 -110.5	0.480	96	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456165	**Client ID**	MB456165			LCS456165		
Prep Batch N/A	**GCAL ID**	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.05	101	82 - 110

Analytical Batch 456165	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate	704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch 456165	**Client ID**	MAO2MW001D			944806MS			944806MSD			
Prep Batch N/A	**GCAL ID**	21105060801			946301			946302			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 12:02			05/12/2011 12:20			05/12/2011 12:37			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	2190	21.0	2500	4680	99.5	79 - 109	4640	97.8	0.89	15
14808-79-8	Sulfate	2130	79.0	5000	7220	102	82 - 110	7280	103	0.81	15

General Chemistry Quality Control Summary

Analytical Batch 456669	**Client ID**	MB456669			LCS456669		
Prep Batch N/A	**GCAL ID**	948789			948790		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 17:40			05/19/2011 17:58		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.4	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.91	98.3	82 - 110

Analytical Batch 456669	**Client ID**	E16A			946542MS			946542MSD			
Prep Batch N/A	**GCAL ID**	21105122833			948791			948792			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 18:15			05/19/2011 18:33			05/19/2011 18:51			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate	76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948793			948794			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/20/2011 01:01			05/20/2011 01:18			05/20/2011 01:36			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate	216	3.95	250	470	102	82 - 110	468	101	0.49	15

General Chemistry Quality Control Summary

Analytical Batch 455965	**Client ID**	LCS455965			
Prep Batch N/A	**GCAL ID**	945466			
	Sample Type	LCS			
	Analytical Date	05/09/2011 11:15			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	206	103	80 - 120

Analytical Batch 455965	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945467		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 11:15		05/09/2011 11:15		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		69.2	0.21	70.4	2	11

Analytical Batch 455971	**Client ID**	LCS455971				LCSD455971			
Prep Batch N/A	**GCAL ID**	945486				945487			
	Sample Type	LCS				LCSD			
	Analytical Date	05/09/2011 12:38				05/09/2011 12:38			
	Matrix	Water				Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	9.3	93	80 - 120	9.3	93	0.1	11

Analytical Batch 456175	**Client ID**	LCS456175			
Prep Batch N/A	**GCAL ID**	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456175	**Client ID**	MAO1MW001	MA01MW001-DUP
Prep Batch N/A	**GCAL ID**	21105060810	21105060813
	Sample Type	SAMPLE	DUP
	Analytical Date	05/12/2011 09:24	05/12/2011 09:24
	Matrix	Water	Water

SM 2320B Alkalinity	**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
	Result	**RDL**			
000000-00-5 Total Alkalinity	169	0.21	171	0.8	11

Analytical Batch 456595	**Client ID**	LCS456595
Prep Batch N/A	**GCAL ID**	948433
	Sample Type	LCS
	Analytical Date	05/18/2011 14:07
	Matrix	Water

SM 2320B Alkalinity	**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity	200	200	100	80 - 120

Analytical Batch 456595	**Client ID**	TK-471	948229DUP
Prep Batch N/A	**GCAL ID**	21105181102	948434
	Sample Type	SAMPLE	DUP
	Analytical Date	05/18/2011 14:07	05/18/2011 14:07
	Matrix	Water	Water

SM 2320B Alkalinity	**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
	Result	**RDL**			
000000-00-5 Total Alkalinity	308	0.21	309	0.3	11

General Chemistry Quality Control Summary

Analytical Batch 455820	**Client ID**	MB455820			LCS455820		
Prep Batch N/A	**GCAL ID**	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	**Client ID**	M114MW004			944807MS			944807MSD			
Prep Batch N/A	**GCAL ID**	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	453	91	80 - 120	457	91	0.9	20

Analytical Batch 455917	**Client ID**	MB455917			LCS455917		
Prep Batch N/A	**GCAL ID**	945315			945316		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 09:58			05/07/2011 09:58		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	458	92	80 - 120

Analytical Batch 455917	**Client ID**	M114MW002			945264MS		
Prep Batch N/A	**GCAL ID**	21105060805			945317		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/07/2011 10:00			05/07/2011 10:01		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 455917	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945318		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/07/2011 10:00		05/07/2011 10:02		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

Analytical Batch 456016	**Client ID**	MB456016			LCS456016		
Prep Batch N/A	**GCAL ID**	945708			945709		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 10:04			05/10/2011 10:05		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456016	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 10:06			05/10/2011 10:06			05/10/2011 10:07			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	500	478	96	80 - 120	495		3	20

Analytical Batch 456081	**Client ID**	MB456081			LCS456081		
Prep Batch N/A	**GCAL ID**	945975			945976		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:26			05/11/2011 08:26		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	494	99	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456081	**Client ID**	M114MW001			945961MS		
Prep Batch N/A	**GCAL ID**	21105060815			945978		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/11/2011 08:27			05/11/2011 08:27		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	499	100	80 - 120

Analytical Batch 456081	**Client ID**	M114MW001		945961DUP		
Prep Batch N/A	**GCAL ID**	21105060815		945977		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/11/2011 08:27		05/11/2011 08:27		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456466	**Client ID**	MB456466			LCS456466		
Prep Batch N/A	**GCAL ID**	947770			947771		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 10:23			05/17/2011 10:23		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	513	103	80 - 120

Analytical Batch 456466	**Client ID**	MWQ23			947763MS		
Prep Batch N/A	**GCAL ID**	21105170902			947773		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/17/2011 10:24			05/17/2011 10:25		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456466	**Client ID**	MWQ23		947763DUP		
Prep Batch N/A	**GCAL ID**	21105170902		947772		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/17/2011 10:24		05/17/2011 10:25		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch	456300	**Client ID**	MB455936	LCS455936
Prep Batch	455936	**GCAL ID**	945393	945394
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCS
		Prep Date	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:07	05/13/2011 16:08
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.020	0.021	107	80 - 120

Analytical Batch	456300	**Client ID**	MB455936	LCSHI455936
Prep Batch	455936	**GCAL ID**	945393	945395
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCSHI
		Prep Date	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:07	05/13/2011 17:15
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.10	0.12	117	80 - 120

Analytical Batch	456300	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455936	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	05/12/2011 11:30	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:22	05/13/2011 16:23	05/13/2011 16:24
		Matrix	Water	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0473	95.0	80 - 120	0.0481	96.0	2.0	20

General Chemistry Quality Control Summary

Analytical Batch	456455	**Client ID**	301-128			301-128 MS			301-128 MSD			
Prep Batch	455936	**GCAL ID**	21105093001			21105093002			21105093003			
Prep Method	SM 4500 CN E	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/17/2011 09:28			05/17/2011 09:29			05/17/2011 09:30			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0010	0.00055	0.050	0.042	82.8	80 - 120	0.042	82.2	0.71	20

Analytical Batch	456904	**Client ID**	MB456439			LCS456439		
Prep Batch	456439	**GCAL ID**	947658			947659		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCS		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:51		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.018	88.0	80 - 120

Analytical Batch	456904	**Client ID**	MB456439			LCSHI456439		
Prep Batch	456439	**GCAL ID**	947658			947660		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCSHI		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:52		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.087	87.2	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	9012A	**Prep Date**	05/19/2011 16:30		05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59		05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide	0.0	0.00055	0.050	0.040	**79.2***	80 - 120	0.040	**79.6***	0.50	20

Analytical Batch	456904	**Client ID**	MWQ-14		947214DUP		
Prep Batch	456439	**GCAL ID**	21105042616		947661		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	9012A	**Prep Date**	05/19/2011 16:30		05/19/2011 16:30		
		Analytical Date	05/23/2011 10:59		05/23/2011 11:00		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Result**		**RPD**	
		Result	**RDL**				**Limit**
57-12-5	Total Cyanide	0.0	0.00055	0.0		0.0	25

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21105060 8	5-13-11

Report to:
Client: Trinity AOC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0095

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Hg	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3	ALK/TTS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X			*	~~2~~ 1
GW	5/5/11	1223		✓	MA02 MW001D		12	X	X	X	X	X	X	X	X	X			1	~~1~~ 1
GW	5/5/11	1516		✓	M114 MW004		12	X	X	X	X	X	X	X	X	X			2	~~2~~ 1
	5/5/11	926			TB1		3												3	~~3~~ 1
	5/5/11	926			TB2		3												4	~~4~~ 1

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/6/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* Sample was a equipment wash

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite 2
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	Alk/TS	VOC (HCl) 8260			Remarks:	Lab ID
GW	5/6/11	1135		X	M114 MW003		12	X	X	X	X	X	X	X	X	X				5
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X				6
GW	5/6/11	1430		X	M114MW003		12	X	X	X	X	X	X	X	X	X				7
	5/6/11				TB4		3									X				8
	5/6/11				TB5		3									X				9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/6/11	1523
Relinquished by: (Signature) Fedex	Received by: (Signature) [signature]	Date: 5/7/11	Time: 0857
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	211050608	5/17/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	SO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	1
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				12, 13
	5/9/11				TB6		3					X								14
	~~5/9/11~~				~~TB7~~		~~3~~					~~X~~								

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[signature]	5-10-11	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample will be received at lab 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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GCAL-06 11/98

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211050608	5-18-11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 2430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CTISO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				
	5/9/11				TB6		3					X								
	5/9/11				TB7		3					X								
	5/10/11				TB8 *															17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5-11-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * samples received 5-11-11 @ 725

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	5-18-4

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCL)	ALKT/TS	Cl/SO4 /NO3 /NO2	CrVI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				19
	5/10/11				TB7		3						X							20
					TB8		3						X						X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5-11-11	845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211050608

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4717	~~211050426~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy AZ
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	COD	Cyanide (NaOH)	Perchlorate	Chloride/Nitrate/SO4	Alkt/TS	VOCs (HCL)			Remarks:	Lab ID
GW	5/16/11	935		X	MA01 MW002		12	X	X	X	X	X	X	X	X	X			~~19~~ 21	
GW	5/16/11	1110		X	MW023		12	X	X	X	X	X	X	X	X	X			~~20~~ 22	
					TB9		3									X			~~21~~ 23	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/16/11	1539
Relinquished by: (Signature) Fed Ex	Received by: (Signature) Fed Ex	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) [signature]	Date: 5/17/11	Time: 0900

Note: MW023 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050608

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Raborn, Michelle

Received Date/Time: 5/7/2011 8:57:00 AM

Samples Received via: EXT

Number of Coolers Received: 9

Cooler tracking numbers(s): 8735 2663 9166, 8735 2663 9213, 8735 2663 9225, 8735 2663 8939, 8735 2663 9267, 8735 2663 9155, 8735 2663 9166,

Cooler temperature(s): Varies noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Containers preserved at the laboratory: 211050608~~02~~-22-5(L-HNO3) AM 5/20/11

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times noted on the COC.

June 02, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1105178

TEL: (225) 769-4900
FAX: (225) 767-5717

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 12 sample(s) on 5/19/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105178

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Analysis Requested: PERCHLORATES 6860

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/5/11	1223		X	21105060801			X	MAO2MW001D	
02	W	5/5/11	1516		X	21105060802			X	M114MW004	
03	W	5/6/11	1135		X	21105060805			X	M114MW002	
04	W	5/6/11	1230		X	21105060806			X	EB1	
05	W	5/6/11	1430		X	21105060807			X	M114MW003	
06	W	5/9/11	1416		X	21105060810			X	MAO1MW001	
07	W	5/9/11	1416		X	21105060811 MS OF 0810			X	MAO1MW001-MS	
08	W	5/9/11	1416		X	21105060812 MSD OF 0810			X	MAO1MW001-MSD	
09	W	5/9/11	0955		X	21105060815			X	M114MW001	
10	W	5/9/11	0955		X	21105060816			X	M114MW001-DUP	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/10/11	16:15
[signature]	[signature]	5/12/11	1030

Note: Receiving temp 2.6° Therm #57 no custody seals

Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105178

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
W	5/10/11	1111		X	21105060818			X	MAOMW004	
W	5/10/11	1320		X	21105060819			X	MAOMW003	
W	5/16/11	1135		X	21105170901			X	MAO1MW002	
W	5/16/11	1110		X	21105170902			X	MWQ23	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/18/11	16:15
[signature]	[signature]	5/15/11	1330

Note: Receiving temps 2.6 2.6 therm #57 no custody seals

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

From: (225) 769-4900
Michelle Raborn

7979 GSRI Ave

Baton Rouge, LA 70820

Origin ID: OPLA

FedEx Express

J1154902250225

Ship Date: 18MAY11
ActWgt: 37.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222 BILL SENDER

JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

Ref #
Invoice #
PO #
Dept #

THU - 19 MAY A1
PRIORITY OVERNIGHT

TRK# 7947 7395 1481
0201

78664
TX-US
AUS

A8 BSMA

500G1/5778/FFB

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 5/19/2011

Work Order Number 1105178

Received by JB

Checklist completed by: Signature | Date 5/19/11

Reviewed by Initials | Date 5-19-11

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.6 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

06/02/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: ICMS-110526A

ICAL Folder: ICMS_ClO4-101118

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst 6/1/11 Date

2nd Level Review 6-1-2011 Date

Manual Integrations Tracking Form_ICMS_110526A

Initial Calibration Summary

Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Recording Time:	**5/26/2011 13:16**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	768.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893

6/1/11

Internal Standard Summary

Sequence Name:	**110526_CLO4**
Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.518~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

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1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11
S

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/19/11. A total of 12 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the conductivity of the samples exceeding the MCT. The samples are: 21105060801, 21105060802, 21105060805, 21105060807, 21105060815 and 21105060816. Sample 21105060801 was further prepared with a smaller volume of 10 ml for final analysis because the Perchlorate concentration exeeded the upper calibration range.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 10 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/19/11. Sample summary sent via email from Log-in to client on 5/19/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105178-01	21105060801		05/05/11 12:23 PM	05/19/11
1105178-02	21105060802		05/05/11 03:16 PM	05/19/11
1105178-03	21105060805		05/06/11 11:35 AM	05/19/11
1105178-04	21105060806		05/06/11 12:30 PM	05/19/11
1105178-05	21105060807		05/06/11 02:30 PM	05/19/11
1105178-06	21105060810		05/09/11 02:16 PM	05/19/11
1105178-07	21105060815		05/09/11 09:55 AM	05/19/11
1105178-08	21105060816		05/09/11 09:55 AM	05/19/11
1105178-09	21105060818		05/10/11 11:11 AM	05/19/11
1105178-10	21105060819		05/10/11 01:20 PM	05/19/11
1105178-11	21105170901		05/16/11 11:35 AM	05/19/11
1105178-12	21105170902		05/16/11 11:10 AM	05/19/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105178-01A	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-02A	21105060802	05/05/11 03:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-03A	21105060805	05/06/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-04A	21105060806	05/06/11 12:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-05A	21105060807	05/06/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-06A	21105060810	05/09/11 02:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-07A	21105060815	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-08A	21105060816	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-09A	21105060818	05/10/11 11:11 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-10A	21105060819	05/10/11 01:20 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-11A	21105170901	05/16/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-12A	21105170902	05/16/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105178-01A	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 03:52 PM	ICMS_110526A
	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/31/11 04:47 PM	ICMS_110526A
1105178-02A	21105060802	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:10 PM	ICMS_110526A
1105178-03A	21105060805	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:27 PM	ICMS_110526A
1105178-04A	21105060806	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:45 PM	ICMS_110526A
1105178-05A	21105060807	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:03 PM	ICMS_110526A
1105178-06A	21105060810	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:21 PM	ICMS_110526A
1105178-07A	21105060815	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:07 PM	ICMS_110526A
1105178-08A	21105060816	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:25 PM	ICMS_110526A
1105178-09A	21105060818	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:42 PM	ICMS_110526A
1105178-10A	21105060819	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:00 PM	ICMS_110526A
1105178-11A	21105170901	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:18 PM	ICMS_110526A
1105178-12A	21105170902	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:35 PM	ICMS_110526A

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060801
Project:	DoD Perchlorate	**Lab ID:**	1105178-01
Project No:	211050608	**Collection Date:**	05/05/11 12:23 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0224	0.000495	0.00149	N	mg/L	1	05/31/11 04:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060802
Project:	DoD Perchlorate	**Lab ID:**	1105178-02
Project No:	211050608	**Collection Date:**	05/05/11 03:16 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00279	0.000198	0.000594	N	mg/L	1	05/26/11 04:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060805
Project:	DoD Perchlorate	**Lab ID:**	1105178-03
Project No:	211050608	**Collection Date:**	05/06/11 11:35 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00280	0.000198	0.000594	N	mg/L	1	05/26/11 04:27 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060806
Project:	DoD Perchlorate	**Lab ID:**	1105178-04
Project No:	211050608	**Collection Date:**	05/06/11 12:30 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 04:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060807
Project:	DoD Perchlorate	**Lab ID:**	1105178-05
Project No:	211050608	**Collection Date:**	05/06/11 02:30 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00410	0.000198	0.000594	N	mg/L	1	05/26/11 05:03 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060810
Project:	DoD Perchlorate	**Lab ID:**	1105178-06
Project No:	211050608	**Collection Date:**	05/09/11 02:16 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000369	0.000100	0.000300	N	mg/L	1	05/26/11 05:21 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060815
Project:	DoD Perchlorate	**Lab ID:**	1105178-07
Project No:	211050608	**Collection Date:**	05/09/11 09:55 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00327	0.000198	0.000594	N	mg/L	1	05/26/11 07:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060816
Project:	DoD Perchlorate	**Lab ID:**	1105178-08
Project No:	211050608	**Collection Date:**	05/09/11 09:55 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00324	0.000198	0.000594	N	mg/L	1	05/26/11 07:25 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060818
Project:	DoD Perchlorate	**Lab ID:**	1105178-09
Project No:	211050608	**Collection Date:**	05/10/11 11:11 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00980	0.000100	0.000300	N	mg/L	1	05/26/11 07:42 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060819
Lab ID: 1105178-10
Collection Date: 05/10/11 01:20 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00103	0.000100	0.000300	N	mg/L	1	05/26/11 08:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105170901
Project:	DoD Perchlorate	**Lab ID:**	1105178-11
Project No:	211050608	**Collection Date:**	05/16/11 11:35 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00205	0.000100	0.000300	N	mg/L	1	05/26/11 08:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105170902
Project:	DoD Perchlorate	**Lab ID:**	1105178-12
Project No:	211050608	**Collection Date:**	05/16/11 11:10 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 08:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	MB-46494	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MBLK	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 03:34 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000300	0.000300								NU

Sample ID:	1105178-06AMS	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 05:38 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000690	0.000300	0.000300	0.000369	107	85	115			N

Sample ID:	1105178-06AMSD	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 05:56 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000653	0.000300	0.000300	0.000369	94.8	85	115	5.47	20	N

Sample ID:	LCS-46494	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	LCS	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 04:30 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000324	0.000300	0.000300	0	108	85	115			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000220	0.000300	0.000200	0	110	70	130			N

Sample ID:	ICV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00202	0.000300	0.00200	0	101	85	115			N

Sample ID:	ICS1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000261	0.000300	0.000300	0	87.1	85	115			N

Sample ID:	CCV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00506	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000227	0.000300	0.000200	0	114	70	130			N

Sample ID:	CCV2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 09:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00493	0.000300	0.00500	0	98.6	85	115			N

Sample ID:	LCVL3-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 10:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000257	0.000300	0.000200	0	129	70	130			N

Sample ID:	LCVL1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000196	0.000300	0.000200	0	98.2	70	130			N

Sample ID:	ICV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00200	0.000300	0.00200	0	100	85	115			N

Sample ID:	ICS1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 11:14 AM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:04 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:22 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:31 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:48 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 11:06 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 01:45 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 02:03 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:23 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:41 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 06/02/11

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
LCS-46494	-----	SW6860	46494	1	05/26/11 03:17 PM	05/26/11
MB-46494	-----	SW6860	46494	1	05/26/11 03:34 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/26/11 03:52 PM	05/26/11
1105178-02A	21105060802	SW6860	46494	1	05/26/11 04:10 PM	05/26/11
1105178-03A	21105060805	SW6860	46494	1	05/26/11 04:27 PM	05/26/11
1105178-04A	21105060806	SW6860	46494	1	05/26/11 04:45 PM	05/26/11
1105178-05A	21105060807	SW6860	46494	1	05/26/11 05:03 PM	05/26/11
1105178-06A	21105060810	SW6860	46494	1	05/26/11 05:21 PM	05/26/11
1105178-06AMS	21105060810MS	SW6860	46494	1	05/26/11 05:38 PM	05/26/11
1105178-06AMSD	21105060810MSD	SW6860	46494	1	05/26/11 05:56 PM	05/26/11
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105178-07A	21105060815	SW6860	46494	1	05/26/11 07:07 PM	05/26/11
1105178-08A	21105060816	SW6860	46494	1	05/26/11 07:25 PM	05/26/11
1105178-09A	21105060818	SW6860	46494	1	05/26/11 07:42 PM	05/26/11
1105178-10A	21105060819	SW6860	46494	1	05/26/11 08:00 PM	05/26/11
1105178-11A	21105170901	SW6860	46494	1	05/26/11 08:18 PM	05/26/11
1105178-12A	21105170902	SW6860	46494	1	05/26/11 08:35 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	

DHL Analytical

Date: 06/02/11

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
LCS-46494	-----	SW6860	46494	1	05/31/11 04:30 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/31/11 04:47 PM	05/26/11
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 10/20/2011

GCAL Report 211092804

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose - Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211092804

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q- LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

J - Indicates a positive result was obtained and the sample had a surrogate failure above the upper control limit or the sample had positive results and/or non-detects and had a surrogate recovery below the lower control limit.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 466398, the % Drift is outside ±20% for Chloroethane in the CCV. The recovery is high and this compound was not detected in the associated sample.

In the SW-846 8260B analysis for analytical batch 466441, the % Drift is outside ±20% for n-Butylbenezene in the CCV. The recovery is high and this compound was not detected in the associated sample.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis of prep batch 466485, the MSD exhibited a recovery failure. All other batch QC is acceptable.

In the SW-846 8330 analysis, the recovery for the surrogate is below the lower control limit in samples 21109280410 (MWQ 23), 21109280412 (MA01 MW0002), 21110010505 (M114MW002), and 21110010506 (M114MW003). The first two samples were not re-extracted due to expiration of the holding time. The client was notified of the exception. Sample 21110010505 (M114MW002) was re-extracted and re-analyzed with a recovery of 37% (first extract recovery 61%) and sample 21110010506 (M114MW003) was re-extracted and re-analyzed with a recovery of 34% (first extract recovery 67%).

In the SW-846 8330 analysis, the recovery for 2,6-Dinitrotoluene is above the upper control limit in the ICV. This compound was not detected in the associated samples.

METALS

Several dissolved metal concentrations are greater than the total concentration of these analytes in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010C analysis, samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D) and 21109280408 (FD-1) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the SW-846 6010C analysis, a chemical or physical interference necessitated a dilution for sample 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002) and 21110010506 (M114MW003). This is reflected in the elevated detection limits.

In the SW-846 6010C analysis for prep batch 466323, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. Sodium was detected in the method blank at a concentration > ½ the RL. The concentration is acceptable at <RL for this common lab contaminant.

In the SW-846 6010C analysis for prep batch 466324, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium and Calcium because the sample concentration is greater than four times the spike concentration. The method blank (992256) was re-analyzed for Calcium on ICP6 10/05/11 at 1342. The rerun data is reported on the Form 3 with the data from the original run because only one schedule can be entered in the data system for a method blank. Calcium was detected at concentration greater than the PQL in the method blank. The concentration is less than 10% of the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 466511, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 123% for Arsenic, 109% for Potassium, and 124% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 466510, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 117% for Arsenic, 111% for Potassium, and 117% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A Dissolved and SW-846 7470A analysis for prep batch 466512, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B analysis, Sodium was detected in a CCB (ICP6, 10/04/11 0023) at a concentration > LOD. The concentration is less than 10% of the concentration detected in the associated samples.

p**CONVENTIONALS**

In the EPA 300.0 analysis, samples 21109280401 (MA01MW001), 21109280402 (MA01MW003), 21109280403 (MA01MW003-MS), 21109280404 (MA01MW003-MSD), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21109280410 (MWQ-23), 21109280411 (MA01-MW004), 21109280412 (MA01-MW002), 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002), and 21110010506 (M114MW003) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21109280407 (MA02 MW001D), 21109280408 (FD-1)21110010501 (M114MW004) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the EPA 353.2 analysis for analytical batch 466506, the MS/MSD recovery was outside the control limits for Nitrate. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

The Sample/Duplicate RPD for Chromium VI for analytical batch 466230 is not applicable because the

sample and/or duplicate concentration is less than five times the reporting limit.

Samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21110010505 (M114MW002), were received with insufficient time to process the samples in receiving and start the Chromium VI analysis within the 24-hour holding time. Sample 21110010504 (EB-1) was received outside the 24-hour holding time for Chromium VI.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211092804

THIS REPORT CONTAINS 214 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10
21109280405	TB-1	Water	09/27/2011 16:33	09/28/2011 09:10
21109280406	MA01MW003-DUP	Water	09/27/2011 12:21	09/28/2011 09:10
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15
21109280409	TB-2	Water	09/28/2011 10:28	09/29/2011 09:15
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15
21109280413	TB-4	Water	09/29/2011 08:40	09/30/2011 09:15
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00
21110010503	TB-5	Water	09/30/2011 10:00	10/01/2011 09:00
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00
21110010507	TB-6	Water	10/03/2011 08:00	10/04/2011 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	84.3J	200	60.0	ug/L
7440-39-3	Barium	14.9	10.0	1.59	ug/L
7440-47-3	Chromium	1.06J	10.0	1.00	ug/L
7440-50-8	Copper	10.6	10.0	1.69	ug/L
7439-95-4	Magnesium	48100	100	50.0	ug/L
7439-96-5	Manganese	5.72J	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.42J	50.0	3.75	ug/L
7440-09-7	Potassium	7120	500	100	ug/L
7440-23-5	Sodium	569000	1000	200	ug/L
7440-62-2	Vanadium	23.0	20.0	3.75	ug/L
7440-66-6	Zinc	229	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	51000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	14.7	10.0	1.59	ug/L
7440-50-8	Copper	11.7	10.0	1.69	ug/L
7439-95-4	Magnesium	51400	100	50.0	ug/L
7439-98-7	Molybdenum	4.61J	50.0	3.75	ug/L
7440-09-7	Potassium	7670	500	100	ug/L
7440-62-2	Vanadium	26.1	20.0	3.75	ug/L
7440-66-6	Zinc	248	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	556000	2000	400	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	51300	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.116	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1990	10.0	10.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	525	50.0	10.5	mg/L
14808-79-8	Sulfate	564	100	39.5	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	172	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09518B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.29B	60.0	3.98	ug/L
7440-39-3	Barium	20.7	10.0	1.59	ug/L
7440-47-3	Chromium	1.96B	10.0	1.00	ug/L
7440-50-8	Copper	13.7	10.0	1.69	ug/L
7439-95-4	Magnesium	61200	100	50.0	ug/L
7439-96-5	Manganese	10.2B	15.0	2.00	ug/L
7440-09-7	Potassium	7750	500	100	ug/L
7440-23-5	Sodium	459000	1000	200	ug/L
7440-32-6	Titanium	1.24B	100	1.20	ug/L
7440-62-2	Vanadium	29.6	20.0	3.75	ug/L
7440-66-6	Zinc	339	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	64100	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	18.1	10.0	1.59	ug/L
7440-50-8	Copper	12.7	10.0	1.69	ug/L
7439-95-4	Magnesium	58700	100	50.0	ug/L
7439-96-5	Manganese	8.24B	15.0	2.00	ug/L
7440-09-7	Potassium	7620	500	100	ug/L
7440-23-5	Sodium	430000	1000	200	ug/L
7440-62-2	Vanadium	26.7	20.0	3.75	ug/L
7440-66-6	Zinc	316	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	58600	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.085	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1790	10.0	10.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	477	50.0	10.5	mg/L
14808-79-8	Sulfate	524	100	39.5	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	152	1.0	0.34	mg/L CaCO3

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0499	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5240	200	60.0	ug/L
7440-36-0	Antimony	547	60.0	3.98	ug/L
7440-38-2	Arsenic	562	10.0	3.49	ug/L
7440-39-3	Barium	537	10.0	1.59	ug/L
7440-41-7	Beryllium	526	5.00	0.082	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-47-3	Chromium	503	10.0	1.00	ug/L
7440-48-4	Cobalt	518	10.0	1.00	ug/L
7440-50-8	Copper	541	10.0	1.69	ug/L
7439-89-6	Iron	5200	100	40.0	ug/L
7439-92-1	Lead	509	15.0	2.83	ug/L
7439-95-4	Magnesium	70500	100	50.0	ug/L
7439-96-5	Manganese	528	15.0	2.00	ug/L
7439-98-7	Molybdenum	536	50.0	3.75	ug/L
7440-02-0	Nickel	517	40.0	0.84	ug/L
7440-09-7	Potassium	19000	500	100	ug/L
7782-49-2	Selenium	546	40.0	3.79	ug/L
7440-22-4	Silver	534	10.0	0.64	ug/L
7440-23-5	Sodium	522000	1000	200	ug/L
7440-28-0	Thallium	511	20.0	2.60	ug/L
7440-32-6	Titanium	518	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	886	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	68700	100	50.0	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.51	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4880	200	60.0	ug/L
7440-36-0	Antimony	504	60.0	3.98	ug/L
7440-38-2	Arsenic	503	10.0	3.49	ug/L
7440-39-3	Barium	495	10.0	1.59	ug/L
7440-41-7	Beryllium	481	5.00	0.082	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	469	5.00	0.20	ug/L
7440-47-3	Chromium	464	10.0	1.00	ug/L
7440-48-4	Cobalt	466	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	459	15.0	2.83	ug/L
7439-95-4	Magnesium	67200	100	50.0	ug/L
7439-96-5	Manganese	487	15.0	2.00	ug/L
7439-98-7	Molybdenum	502	50.0	3.75	ug/L
7440-02-0	Nickel	463	40.0	0.84	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	476	40.0	3.79	ug/L
7440-22-4	Silver	485	10.0	0.64	ug/L
7440-23-5	Sodium	492000	1000	200	ug/L
7440-28-0	Thallium	465	20.0	2.60	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	509	20.0	3.75	ug/L
7440-66-6	Zinc	810	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	70400	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.32	0.20	0.075	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.558	0.010	0.003	mg/L-N

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	2.07	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	2.09	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.94	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	2.16	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.89	0.505	0.109	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.85	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.70	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.51	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.51	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.42	0.505	0.117	ug/L
2691-41-0	HMX	2.30	0.202	0.035	ug/L
98-95-3	Nitrobenzene	2.04	0.505	0.137	ug/L
121-82-4	RDX	1.78	0.202	0.067	ug/L
479-45-8	Tetryl	1.21	0.505	0.202	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1690	50.0	10.5	mg/L
14808-79-8	Sulfate	3070	100	39.5	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	469	10.0	3.30	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.9	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	52.8	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.8	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	50.8	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.1	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	52.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	53.6	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	52.5	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.8	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.6	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.3	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.7	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	50.2	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	53.9	1	0.112	ug/L
78-93-3	2-Butanone	41.3	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.5	1	0.090	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
591-78-6	2-Hexanone	43.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	54.0	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	51.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	57.1	5	0.142	ug/L
67-64-1	Acetone	28.9	5	0.322	ug/L
71-43-2	Benzene	52.3	1	0.049	ug/L
108-86-1	Bromobenzene	49.8	1	0.095	ug/L
74-97-5	Bromochloromethane	53.3	1	0.238	ug/L
75-27-4	Bromodichloromethane	54.2	1	0.071	ug/L
75-25-2	Bromoform	58.4	1	0.278	ug/L
74-83-9	Bromomethane	47.4	1	0.276	ug/L
75-15-0	Carbon disulfide	51.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	53.2	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	58.6	1	0.279	ug/L
67-66-3	Chloroform	49.1	1	0.062	ug/L
74-87-3	Chloromethane	53.1	1	0.076	ug/L
74-95-3	Dibromomethane	54.2	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.0	1	0.088	ug/L
100-41-4	Ethylbenzene	53.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	51.2	1	0.058	ug/L
75-09-2	Methylene chloride	54.8	5	0.102	ug/L
91-20-3	Naphthalene	48.5	1	0.175	ug/L
100-42-5	Styrene	51.3	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.6	1	0.141	ug/L
108-88-3	Toluene	49.3	1	0.078	ug/L
79-01-6	Trichloroethene	51.5	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	50.7	1	0.094	ug/L
75-01-4	Vinyl chloride	50.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	53.4	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.0	1	0.105	ug/L
136777-61-2	m,p-Xylene	104	2	0.099	ug/L
104-51-8	n-Butylbenzene	55.6	1	0.068	ug/L
103-65-1	n-Propylbenzene	53.5	1	0.069	ug/L
95-47-6	o-Xylene	51.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	54.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	53.2	5	0.084	ug/L
98-06-6	tert-Butylbenzene	57.4	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	50.9	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	58.7	1	0.068	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0497	0.0050	0.0006	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.38	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4820	200	60.0	ug/L
7440-36-0	Antimony	493	60.0	3.98	ug/L
7440-38-2	Arsenic	505	10.0	3.49	ug/L
7440-39-3	Barium	488	10.0	1.59	ug/L
7440-41-7	Beryllium	479	5.00	0.082	ug/L
7440-43-9	Cadmium	467	5.00	0.20	ug/L
7440-47-3	Chromium	457	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4780	100	40.0	ug/L
7439-92-1	Lead	455	15.0	2.83	ug/L
7439-95-4	Magnesium	67300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	483	50.0	3.75	ug/L
7440-02-0	Nickel	460	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	481	40.0	3.79	ug/L
7440-22-4	Silver	484	10.0	0.64	ug/L
7440-23-5	Sodium	490000	1000	200	ug/L
7440-28-0	Thallium	460	20.0	2.60	ug/L
7440-32-6	Titanium	473	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	814	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.41	0.20	0.075	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4730	200	60.0	ug/L
7440-36-0	Antimony	500	60.0	3.98	ug/L
7440-38-2	Arsenic	497	10.0	3.49	ug/L
7440-39-3	Barium	485	10.0	1.59	ug/L
7440-41-7	Beryllium	471	5.00	0.082	ug/L
7440-43-9	Cadmium	458	5.00	0.20	ug/L
7440-47-3	Chromium	456	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	481	10.0	1.69	ug/L
7439-89-6	Iron	4700	100	40.0	ug/L
7439-92-1	Lead	453	15.0	2.83	ug/L
7439-95-4	Magnesium	65100	100	50.0	ug/L
7439-96-5	Manganese	481	15.0	2.00	ug/L
7439-98-7	Molybdenum	495	50.0	3.75	ug/L
7440-02-0	Nickel	459	40.0	0.84	ug/L
7440-09-7	Potassium	17300	500	100	ug/L
7782-49-2	Selenium	475	40.0	3.79	ug/L
7440-22-4	Silver	475	10.0	0.64	ug/L
7440-23-5	Sodium	486000	1000	200	ug/L
7440-28-0	Thallium	464	20.0	2.60	ug/L
7440-32-6	Titanium	483	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	794	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.560	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1680	50.0	10.5	mg/L
14808-79-8	Sulfate	3040	100	39.5	mg/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	1.74	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	1.70	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.68	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	1.75	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.46	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.66	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.44	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.15	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.33	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.10	0.505	0.117	ug/L
2691-41-0	HMX	1.84	0.202	0.035	ug/L
98-95-3	Nitrobenzene	1.67	0.505	0.137	ug/L
121-82-4	RDX	1.39	0.202	0.067	ug/L
479-45-8	Tetryl	0.919	0.505	0.202	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	471	10.0	3.30	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.8	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.9	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.5	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.5	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	51.7	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	48.4	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.6	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	55.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.1	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	50.6	1	0.112	ug/L
78-93-3	2-Butanone	40.4	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.7	1	0.090	ug/L
591-78-6	2-Hexanone	44.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.8	1	0.046	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
99-87-6	4-Isopropyltoluene	50.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.2	5	0.142	ug/L
67-64-1	Acetone	27.8	5	0.322	ug/L
71-43-2	Benzene	49.9	1	0.049	ug/L
108-86-1	Bromobenzene	49.5	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	51.3	1	0.071	ug/L
75-25-2	Bromoform	57.0	1	0.278	ug/L
74-83-9	Bromomethane	47.1	1	0.276	ug/L
75-15-0	Carbon disulfide	49.3	1	0.190	ug/L
56-23-5	Carbon tetrachloride	49.1	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	56.5	1	0.279	ug/L
67-66-3	Chloroform	46.6	1	0.062	ug/L
74-87-3	Chloromethane	50.3	1	0.076	ug/L
74-95-3	Dibromomethane	51.2	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	46.4	1	0.088	ug/L
100-41-4	Ethylbenzene	52.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.9	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	49.9	1	0.058	ug/L
75-09-2	Methylene chloride	51.8	5	0.102	ug/L
91-20-3	Naphthalene	49.1	1	0.175	ug/L
100-42-5	Styrene	50.4	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.4	1	0.141	ug/L
108-88-3	Toluene	49.1	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	47.2	1	0.094	ug/L
75-01-4	Vinyl chloride	48.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	50.6	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6	1	0.105	ug/L
136777-61-2	m,p-Xylene	102	2	0.099	ug/L
104-51-8	n-Butylbenzene	54.0	1	0.068	ug/L
103-65-1	n-Propylbenzene	52.5	1	0.069	ug/L
95-47-6	o-Xylene	50.6	1	0.077	ug/L
135-98-8	sec-Butylbenzene	53.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8	5	0.084	ug/L
98-06-6	tert-Butylbenzene	55.7	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	48.1	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	55.3	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.34	mg/L CaCO3

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1740	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.44B	10.0	1.59	ug/L
7440-50-8	Copper	23.8	10.0	1.69	ug/L
7439-95-4	Magnesium	73300	100	50.0	ug/L
7439-96-5	Manganese	188	15.0	2.00	ug/L
7439-98-7	Molybdenum	15.2B	50.0	3.75	ug/L
7440-02-0	Nickel	2.14B	40.0	0.84	ug/L
7440-09-7	Potassium	9280	500	100	ug/L
7782-49-2	Selenium	132	40.0	3.79	ug/L
7440-62-2	Vanadium	25.9	20.0	3.75	ug/L
7440-66-6	Zinc	301	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1630000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	119000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.84B	10.0	1.59	ug/L
7440-47-3	Chromium	1.31B	10.0	1.00	ug/L
7440-50-8	Copper	25.3	10.0	1.69	ug/L
7439-95-4	Magnesium	67600	100	50.0	ug/L
7439-96-5	Manganese	209	15.0	2.00	ug/L
7439-98-7	Molybdenum	14.0B	50.0	3.75	ug/L
7440-02-0	Nickel	1.43B	40.0	0.84	ug/L
7440-09-7	Potassium	8540	500	100	ug/L
7782-49-2	Selenium	117	40.0	3.79	ug/L
7440-62-2	Vanadium	24.5	20.0	3.75	ug/L
7440-66-6	Zinc	288	20.0	5.89	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1580000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	114000	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5620	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	142	1.0	0.34	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.035	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1640	100	21.0	mg/L
14808-79-8	Sulfate	1860	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	78.9B	200	60.0	ug/L
7440-39-3	Barium	10.1	10.0	1.59	ug/L
7440-47-3	Chromium	1.31B	10.0	1.00	ug/L
7440-50-8	Copper	25.0	10.0	1.69	ug/L
7439-95-4	Magnesium	69100	100	50.0	ug/L
7439-96-5	Manganese	210	15.0	2.00	ug/L
7439-98-7	Molybdenum	14.2B	50.0	3.75	ug/L
7440-02-0	Nickel	1.82B	40.0	0.84	ug/L
7440-09-7	Potassium	8720	500	100	ug/L
7782-49-2	Selenium	122	40.0	3.79	ug/L
7440-62-2	Vanadium	25.6	20.0	3.75	ug/L
7440-66-6	Zinc	290	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1630000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	116000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.85B	10.0	3.49	ug/L
7440-39-3	Barium	9.39B	10.0	1.59	ug/L
7440-50-8	Copper	23.6	10.0	1.69	ug/L
7439-95-4	Magnesium	73800	100	50.0	ug/L
7439-96-5	Manganese	188	15.0	2.00	ug/L
7439-98-7	Molybdenum	15.3B	50.0	3.75	ug/L
7440-02-0	Nickel	1.58B	40.0	0.84	ug/L
7440-09-7	Potassium	9230	500	100	ug/L
7782-49-2	Selenium	133	40.0	3.79	ug/L
7440-62-2	Vanadium	25.6	20.0	3.75	ug/L
7440-66-6	Zinc	303	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1600000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	122000	100	50.0	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	6.00B	10.0	3.30	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1620	100	21.0	mg/L
14808-79-8	Sulfate	1940	200	79.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	144	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5750	10.0	10.0	mg/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.040	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.3	10.0	1.59	ug/L
7440-50-8	Copper	5.68B	10.0	1.69	ug/L
7439-95-4	Magnesium	9550	100	50.0	ug/L
7439-96-5	Manganese	78.0	15.0	2.00	ug/L
7439-98-7	Molybdenum	30.4B	50.0	3.75	ug/L
7440-09-7	Potassium	2570	500	100	ug/L
7440-23-5	Sodium	472000	1000	200	ug/L
7440-62-2	Vanadium	8.39B	20.0	3.75	ug/L
7440-66-6	Zinc	18.4B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	14700	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	10.8	10.0	1.59	ug/L
7440-50-8	Copper	5.14B	10.0	1.69	ug/L
7439-95-4	Magnesium	9680	100	50.0	ug/L
7439-96-5	Manganese	75.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	31.3B	50.0	3.75	ug/L
7440-09-7	Potassium	2470	500	100	ug/L
7440-23-5	Sodium	481000	1000	200	ug/L
7440-32-6	Titanium	2.51B	100	1.20	ug/L
7440-62-2	Vanadium	8.64B	20.0	3.75	ug/L
7440-66-6	Zinc	18.4B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	14700	100	50.0	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	212	20.0	4.20	mg/L
14808-79-8	Sulfate	396	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1310	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.013	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	333	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.4	10.0	1.59	ug/L
7440-50-8	Copper	9.63B	10.0	1.69	ug/L
7439-95-4	Magnesium	36100	100	50.0	ug/L
7439-96-5	Manganese	5.81B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.07B	50.0	3.75	ug/L
7440-09-7	Potassium	6150	500	100	ug/L
7782-49-2	Selenium	5.03B	40.0	3.79	ug/L
7440-23-5	Sodium	323000	1000	200	ug/L
7440-32-6	Titanium	1.52B	100	1.20	ug/L
7440-62-2	Vanadium	32.5	20.0	3.75	ug/L
7440-66-6	Zinc	305	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39900	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08433B	0.20	0.075	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08023B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.0	10.0	1.59	ug/L
7440-47-3	Chromium	1.21B	10.0	1.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	Copper	8.23B	10.0	1.69	ug/L
7439-95-4	Magnesium	35500	100	50.0	ug/L
7439-96-5	Manganese	6.56B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.78B	50.0	3.75	ug/L
7440-09-7	Potassium	6040	500	100	ug/L
7782-49-2	Selenium	6.15B	40.0	3.79	ug/L
7440-23-5	Sodium	321000	1000	200	ug/L
7440-62-2	Vanadium	26.4	20.0	3.75	ug/L
7440-66-6	Zinc	276	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39300	100	50.0	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	200	1.0	0.34	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	251	20.0	4.20	mg/L
14808-79-8	Sulfate	329	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1130	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.339	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.1	10.0	1.59	ug/L
7440-47-3	Chromium	1.12B	10.0	1.00	ug/L
7440-50-8	Copper	10.6	10.0	1.69	ug/L
7439-95-4	Magnesium	36100	100	50.0	ug/L
7439-98-7	Molybdenum	6.66B	50.0	3.75	ug/L
7440-09-7	Potassium	6710	500	100	ug/L
7782-49-2	Selenium	4.49B	40.0	3.79	ug/L
7440-23-5	Sodium	533000	1000	200	ug/L
7440-32-6	Titanium	1.37B	100	1.20	ug/L
7440-62-2	Vanadium	27.4	20.0	3.75	ug/L
7440-66-6	Zinc	219	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39100	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09305B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	16.3	10.0	1.59	ug/L
7440-47-3	Chromium	2.47B	10.0	1.00	ug/L
7440-50-8	Copper	10.2	10.0	1.69	ug/L
7439-95-4	Magnesium	35800	100	50.0	ug/L
7439-96-5	Manganese	5.45B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.93B	50.0	3.75	ug/L
7440-09-7	Potassium	6640	500	100	ug/L
7440-23-5	Sodium	531000	1000	200	ug/L
7440-62-2	Vanadium	25.9	20.0	3.75	ug/L
7440-66-6	Zinc	210	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39000	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1720	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	431	20.0	4.20	mg/L
14808-79-8	Sulfate	514	40.0	15.8	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.207	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	180	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	4.75B	10.0	3.49	ug/L
7440-39-3	Barium	15.0	10.0	1.59	ug/L
7440-43-9	Cadmium	1.40B	5.00	0.20	ug/L
7440-47-3	Chromium	2.38B	10.0	1.00	ug/L
7440-50-8	Copper	17.6	10.0	1.69	ug/L
7439-95-4	Magnesium	283000	100	50.0	ug/L
7439-98-7	Molybdenum	13.3B	50.0	3.75	ug/L
7440-09-7	Potassium	18300	500	100	ug/L
7782-49-2	Selenium	22.4B	40.0	3.79	ug/L
7440-62-2	Vanadium	6.46B	20.0	3.75	ug/L
7440-66-6	Zinc	366	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	339000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2480000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	110B	200	60.0	ug/L
7440-39-3	Barium	15.2	10.0	1.59	ug/L
7440-43-9	Cadmium	1.58B	5.00	0.20	ug/L
7440-47-3	Chromium	4.29B	10.0	1.00	ug/L
7440-50-8	Copper	13.8	10.0	1.69	ug/L
7439-95-4	Magnesium	283000	100	50.0	ug/L
7439-98-7	Molybdenum	13.1B	50.0	3.75	ug/L
7440-02-0	Nickel	1.22B	40.0	0.84	ug/L
7440-09-7	Potassium	17100	500	100	ug/L
7782-49-2	Selenium	21.6B	40.0	3.79	ug/L
7440-62-2	Vanadium	4.00B	20.0	3.75	ug/L
7440-66-6	Zinc	347	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	303000	100	50.0	ug/L
7439-96-5	Manganese	3.49B	15.0	2.00	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2170000	25000	5000	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3970	200	42.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	59.3	1.0	0.34	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.511	0.020	0.005	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1630	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9500	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	5.42	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08165J	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.83J	10.0	3.49	ug/L
7440-39-3	Barium	16.9	10.0	1.59	ug/L
7440-43-9	Cadmium	1.19J	5.00	0.20	ug/L
7440-47-3	Chromium	4.17J	10.0	1.00	ug/L
7440-50-8	Copper	15.6	10.0	1.69	ug/L
7439-95-4	Magnesium	257000	100	50.0	ug/L
7439-98-7	Molybdenum	18.8J	50.0	3.75	ug/L
7440-02-0	Nickel	9.23J	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	30.1J	40.0	3.79	ug/L
7440-62-2	Vanadium	10.5J	20.0	3.75	ug/L
7440-66-6	Zinc	413	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	285000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	100.0J	200	60.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	17.4	10.0	1.59	ug/L
7440-43-9	Cadmium	1.16J	5.00	0.20	ug/L
7440-47-3	Chromium	8.46J	10.0	1.00	ug/L
7440-50-8	Copper	15.8	10.0	1.69	ug/L
7439-89-6	Iron	47.1J	100	40.0	ug/L
7439-95-4	Magnesium	236000	100	50.0	ug/L
7439-98-7	Molybdenum	17.8J	50.0	3.75	ug/L
7440-02-0	Nickel	8.97J	40.0	0.84	ug/L
7440-09-7	Potassium	16400	500	100	ug/L
7782-49-2	Selenium	30.3J	40.0	3.79	ug/L
7440-62-2	Vanadium	14.8J	20.0	3.75	ug/L
7440-66-6	Zinc	394	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	259000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080000	25000	5000	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3060	100	21.0	mg/L
14808-79-8	Sulfate	1810	200	79.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.4	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7640	10.0	7.00	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.899	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.41J	5	0.322	ug/L
75-09-2	Methylene chloride	0.891J	5	0.102	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.50J	5	0.322	ug/L
75-09-2	Methylene chloride	1.04J	5	0.102	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.10037B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	2.23B	10.0	1.59	ug/L
7440-02-0	Nickel	1.12B	40.0	0.84	ug/L
7440-22-4	Silver	0.67B	10.0	0.64	ug/L
7440-66-6	Zinc	13.6B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	2.10B	15.0	2.00	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.104	0.100	0.021	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.38J	5	0.322	ug/L
75-09-2	Methylene chloride	3.55J	5	0.102	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.5	10.0	1.59	ug/L
7440-43-9	Cadmium	1.12B	5.00	0.20	ug/L
7440-47-3	Chromium	3.73B	10.0	1.00	ug/L
7440-50-8	Copper	15.8	10.0	1.69	ug/L
7439-95-4	Magnesium	258000	100	50.0	ug/L
7439-98-7	Molybdenum	22.1B	50.0	3.75	ug/L
7440-02-0	Nickel	39.4B	40.0	0.84	ug/L
7440-09-7	Potassium	16800	500	100	ug/L
7782-49-2	Selenium	20.1B	40.0	3.79	ug/L
7440-62-2	Vanadium	10.6B	20.0	3.75	ug/L
7440-66-6	Zinc	234	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	267000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2220000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	85.3B	200	60.0	ug/L
7440-39-3	Barium	17.3	10.0	1.59	ug/L
7440-43-9	Cadmium	1.37B	5.00	0.20	ug/L
7440-47-3	Chromium	4.92B	10.0	1.00	ug/L
7440-50-8	Copper	13.8	10.0	1.69	ug/L
7439-89-6	Iron	60.5B	100	40.0	ug/L
7439-95-4	Magnesium	255000	100	50.0	ug/L
7439-98-7	Molybdenum	23.7B	50.0	3.75	ug/L
7440-02-0	Nickel	40.6	40.0	0.84	ug/L
7440-09-7	Potassium	16500	500	100	ug/L
7782-49-2	Selenium	23.2B	40.0	3.79	ug/L
7440-32-6	Titanium	2.01B	100	1.20	ug/L
7440-62-2	Vanadium	11.0B	20.0	3.75	ug/L
7440-66-6	Zinc	239	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	251000	100	50.0	ug/L
7439-96-5	Manganese	3.12B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2100000	25000	5000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.10199B	0.20	0.075	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.245	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003B	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.8	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7610	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3130	100	21.0	mg/L
14808-79-8	Sulfate	1580	200	79.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	0.909J	5	0.322	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0009B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	200	200	60.0	ug/L
7440-39-3	Barium	14.3	10.0	1.59	ug/L
7440-43-9	Cadmium	1.53B	5.00	0.20	ug/L
7440-47-3	Chromium	2.88B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.69	ug/L
7439-89-6	Iron	162	100	40.0	ug/L
7439-95-4	Magnesium	270000	100	50.0	ug/L
7439-98-7	Molybdenum	9.56B	50.0	3.75	ug/L
7440-09-7	Potassium	17000	500	100	ug/L
7782-49-2	Selenium	29.6B	40.0	3.79	ug/L
7440-32-6	Titanium	2.45B	100	1.20	ug/L
7440-62-2	Vanadium	12.1B	20.0	3.75	ug/L
7440-66-6	Zinc	276	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	317000	100	50.0	ug/L
7439-96-5	Manganese	6.87B	15.0	2.00	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2540000	25000	5000	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09168B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.9	10.0	1.59	ug/L
7440-43-9	Cadmium	1.23B	5.00	0.20	ug/L
7440-47-3	Chromium	1.33B	10.0	1.00	ug/L
7440-50-8	Copper	15.1	10.0	1.69	ug/L
7439-95-4	Magnesium	272000	100	50.0	ug/L
7439-98-7	Molybdenum	8.60B	50.0	3.75	ug/L
7440-09-7	Potassium	17400	500	100	ug/L
7782-49-2	Selenium	29.7B	40.0	3.79	ug/L
7440-62-2	Vanadium	13.4B	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	271	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	334000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2580000	25000	5000	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	53.5	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9870	10.0	7.00	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.430	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.005B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3920	100	21.0	mg/L
14808-79-8	Sulfate	1880	200	79.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.75J	5	0.322	ug/L
75-09-2	Methylene chloride	1.37J	5	0.102	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**2.31J**	**5**	**0.322**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:06	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:06	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	51.1	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:02	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:02	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.43	ug/L	71	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:33	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:32	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:52	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**84.3J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.06J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**48100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.72J**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.42J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7120**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**569000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:52	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**23.0**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**229**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:25	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**51000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 22:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.7**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**51400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.61J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7670**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**248**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	2	10/04/2011 17:10	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**556000**	**2000**	**400**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:05	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**51300**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1990**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:57	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.116**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:53	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:17	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**525**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**564**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**172**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:13	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:26	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 20:45	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 20:45	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:49	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:49	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.86	ug/L	92	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:27	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:17	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09518B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.29B**	**60.0**	**3.98**	**ug/L**
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**20.7**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.96B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**61200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**10.2B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7750**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**459000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.24B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**29.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**339**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 16:48	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**64100**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 21:48	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**18.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**58700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**8.24B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7620**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**430000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**316**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 13:58	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**58600**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1790**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:58	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.085**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:54	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:34	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**477**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**524**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**152**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:14	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:28	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:27	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.9	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	52.8	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.8	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	50.8	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.1	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	52.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	53.6	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	52.5	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.8	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.6	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.3	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.7	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	50.2	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	53.9	1	0.112	ug/L
78-93-3	2-Butanone	41.3	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.5	1	0.090	ug/L
591-78-6	2-Hexanone	43.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	54.0	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	51.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	57.1	5	0.142	ug/L
67-64-1	Acetone	28.9	5	0.322	ug/L
71-43-2	Benzene	52.3	1	0.049	ug/L
108-86-1	Bromobenzene	49.8	1	0.095	ug/L
74-97-5	Bromochloromethane	53.3	1	0.238	ug/L
75-27-4	Bromodichloromethane	54.2	1	0.071	ug/L
75-25-2	Bromoform	58.4	1	0.278	ug/L
74-83-9	Bromomethane	47.4	1	0.276	ug/L
75-15-0	Carbon disulfide	51.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	53.2	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	58.6	1	0.279	ug/L
67-66-3	Chloroform	49.1	1	0.062	ug/L
74-87-3	Chloromethane	53.1	1	0.076	ug/L
74-95-3	Dibromomethane	54.2	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:27	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	49.0	1	0.088	ug/L
100-41-4	Ethylbenzene	53.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	51.2	1	0.058	ug/L
75-09-2	Methylene chloride	54.8	5	0.102	ug/L
91-20-3	Naphthalene	48.5	1	0.175	ug/L
100-42-5	Styrene	51.3	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.6	1	0.141	ug/L
108-88-3	Toluene	49.3	1	0.078	ug/L
79-01-6	Trichloroethene	51.5	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	50.7	1	0.094	ug/L
75-01-4	Vinyl chloride	50.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	53.4	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.0	1	0.105	ug/L
136777-61-2	m,p-Xylene	104	2	0.099	ug/L
104-51-8	n-Butylbenzene	55.6	1	0.068	ug/L
103-65-1	n-Propylbenzene	53.5	1	0.069	ug/L
95-47-6	o-Xylene	51.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	54.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	53.2	5	0.084	ug/L
98-06-6	tert-Butylbenzene	57.4	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	50.9	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	58.7	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	48.5	ug/L	97	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 19:36	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	2.07	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	2.09	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.94	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	2.16	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.89	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.85	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.70	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.51	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.51	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.42	0.505	0.117	ug/L
2691-41-0	HMX	2.30	0.202	0.035	ug/L
98-95-3	Nitrobenzene	2.04	0.505	0.137	ug/L
121-82-4	RDX	1.78	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 19:36	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**1.21**	**0.505**	**0.202**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.7	ug/L	84	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:29	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.32**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:19	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.51**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:09	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4880**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**504**	**60.0**	**3.98**	**ug/L**
7440-38-2	**Arsenic**	**503**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**495**	**10.0**	**1.59**	**ug/L**
7440-41-7	**Beryllium**	**481**	**5.00**	**0.082**	**ug/L**
7440-43-9	**Cadmium**	**469**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**464**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**466**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**489**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**4850**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**459**	**15.0**	**2.83**	**ug/L**
7439-95-4	**Magnesium**	**67200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**487**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**502**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**463**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**476**	**40.0**	**3.79**	**ug/L**
7440-22-4	**Silver**	**485**	**10.0**	**0.64**	**ug/L**
7440-23-5	**Sodium**	**492000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:09	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	465	20.0	2.60	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	509	20.0	3.75	ug/L
7440-66-6	Zinc	810	20.0	5.89	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 16:57	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	70400	100	50.0	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 21:56	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5240	200	60.0	ug/L
7440-36-0	Antimony	547	60.0	3.98	ug/L
7440-38-2	Arsenic	562	10.0	3.49	ug/L
7440-39-3	Barium	537	10.0	1.59	ug/L
7440-41-7	Beryllium	526	5.00	0.082	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-47-3	Chromium	503	10.0	1.00	ug/L
7440-48-4	Cobalt	518	10.0	1.00	ug/L
7440-50-8	Copper	541	10.0	1.69	ug/L
7439-89-6	Iron	5200	100	40.0	ug/L
7439-92-1	Lead	509	15.0	2.83	ug/L
7439-95-4	Magnesium	70500	100	50.0	ug/L
7439-96-5	Manganese	528	15.0	2.00	ug/L
7439-98-7	Molybdenum	536	50.0	3.75	ug/L
7440-02-0	Nickel	517	40.0	0.84	ug/L
7440-09-7	Potassium	19000	500	100	ug/L
7782-49-2	Selenium	546	40.0	3.79	ug/L
7440-22-4	Silver	534	10.0	0.64	ug/L
7440-23-5	Sodium	522000	1000	200	ug/L
7440-28-0	Thallium	511	20.0	2.60	ug/L
7440-32-6	Titanium	518	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	886	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 14:06	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**68700**	**100**	**50.0**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:59	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.558**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:56	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.521**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:52	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1690**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3070**	**100**	**39.5**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**469**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:29	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0499**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:48	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.8	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.9	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.5	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.5	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	51.7	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	48.4	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.6	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	55.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.1	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	50.6	1	0.112	ug/L
78-93-3	2-Butanone	40.4	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.7	1	0.090	ug/L
591-78-6	2-Hexanone	44.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.8	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	50.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.2	5	0.142	ug/L
67-64-1	Acetone	27.8	5	0.322	ug/L
71-43-2	Benzene	49.9	1	0.049	ug/L
108-86-1	Bromobenzene	49.5	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	51.3	1	0.071	ug/L
75-25-2	Bromoform	57.0	1	0.278	ug/L
74-83-9	Bromomethane	47.1	1	0.276	ug/L
75-15-0	Carbon disulfide	49.3	1	0.190	ug/L
56-23-5	Carbon tetrachloride	49.1	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	56.5	1	0.279	ug/L
67-66-3	Chloroform	46.6	1	0.062	ug/L
74-87-3	Chloromethane	50.3	1	0.076	ug/L
74-95-3	Dibromomethane	51.2	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:48	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	46.4	1	0.088	ug/L
100-41-4	Ethylbenzene	52.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.9	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	49.9	1	0.058	ug/L
75-09-2	Methylene chloride	51.8	5	0.102	ug/L
91-20-3	Naphthalene	49.1	1	0.175	ug/L
100-42-5	Styrene	50.4	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.4	1	0.141	ug/L
108-88-3	Toluene	49.1	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	47.2	1	0.094	ug/L
75-01-4	Vinyl chloride	48.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	50.6	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6	1	0.105	ug/L
136777-61-2	m,p-Xylene	102	2	0.099	ug/L
104-51-8	n-Butylbenzene	54.0	1	0.068	ug/L
103-65-1	n-Propylbenzene	52.5	1	0.069	ug/L
95-47-6	o-Xylene	50.6	1	0.077	ug/L
135-98-8	sec-Butylbenzene	53.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8	5	0.084	ug/L
98-06-6	tert-Butylbenzene	55.7	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	48.1	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	55.3	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	75 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	49	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 20:23	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	1.74	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	1.70	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.68	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	1.75	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.46	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.66	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.44	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.15	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.33	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.10	0.505	0.117	ug/L
2691-41-0	HMX	1.84	0.202	0.035	ug/L
98-95-3	Nitrobenzene	1.67	0.505	0.137	ug/L
121-82-4	RDX	1.39	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 20:23	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**0.919**	**0.505**	**0.202**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.73	ug/L	86	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:30	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.38**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:20	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.41**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:30	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4730**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**500**	**60.0**	**3.98**	**ug/L**
7440-38-2	**Arsenic**	**497**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**485**	**10.0**	**1.59**	**ug/L**
7440-41-7	**Beryllium**	**471**	**5.00**	**0.082**	**ug/L**
7440-43-9	**Cadmium**	**458**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**456**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**462**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**481**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**4700**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**453**	**15.0**	**2.83**	**ug/L**
7439-95-4	**Magnesium**	**65100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**481**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**495**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**459**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**475**	**40.0**	**3.79**	**ug/L**
7440-22-4	**Silver**	**475**	**10.0**	**0.64**	**ug/L**
7440-23-5	**Sodium**	**486000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:30	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	464	20.0	2.60	ug/L
7440-32-6	Titanium	483	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	794	20.0	5.89	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:03	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 22:02	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4820	200	60.0	ug/L
7440-36-0	Antimony	493	60.0	3.98	ug/L
7440-38-2	Arsenic	505	10.0	3.49	ug/L
7440-39-3	Barium	488	10.0	1.59	ug/L
7440-41-7	Beryllium	479	5.00	0.082	ug/L
7440-43-9	Cadmium	467	5.00	0.20	ug/L
7440-47-3	Chromium	457	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4780	100	40.0	ug/L
7439-92-1	Lead	455	15.0	2.83	ug/L
7439-95-4	Magnesium	67300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	483	50.0	3.75	ug/L
7440-02-0	Nickel	460	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	481	40.0	3.79	ug/L
7440-22-4	Silver	484	10.0	0.64	ug/L
7440-23-5	Sodium	490000	1000	200	ug/L
7440-28-0	Thallium	460	20.0	2.60	ug/L
7440-32-6	Titanium	473	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	814	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 16:08	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**69000**	**100**	**50.0**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:01	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.560**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:57	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.521**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 19:09	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1680**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3040**	**100**	**39.5**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**471**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:30	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0497**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280405	**TB-1**	Water	09/27/2011 16:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:30	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280405	**TB-1**	Water	09/27/2011 16:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:30	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	51.5	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1740**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**169**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:33	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:33	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	47.2	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 21:10	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 21:10	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.57	ug/L	78	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:37	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:35	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:00	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**9.84B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.3**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**67600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**209**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**14.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.43B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**8540**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**117**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:00	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**24.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**288**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	25	10/04/2011 17:35	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1580000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:48	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**114000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**9.44B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**73300**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**188**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**15.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.14B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**9280**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**132**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**25.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**301**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	25	10/04/2011 17:18	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1630000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:13	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**119000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5620**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:46	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.71**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:34	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.035**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:27	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1640**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1860**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**142**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:54	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:31	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:54	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:54	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	85 - 115
2037-26-5	Toluene d8	50	52.3	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 22:59	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 22:59	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.78	ug/L	86	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:40	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:38	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:07	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**78.9B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**10.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.0**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**69100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**210**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**14.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.82B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**8720**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**122**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:07	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**25.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**290**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	25	10/04/2011 17:43	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1630000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:55	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**116000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:08	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**3.85B**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**9.39B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**73800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**188**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**15.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.58B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**9230**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**133**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:08	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**25.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**303**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	25	10/04/2011 17:27	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1600000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:30	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**122000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5750**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:48	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.71**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:35	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.040**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:44	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1620**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1940**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**144**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:55	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**6.00B**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:32	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0006B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280409	**TB-2**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:15	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280409	**TB-2**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:15	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	85 - 115
2037-26-5	Toluene d8	50	51.9	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 13:45	SLR	466441

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 13:45	SLR	466441

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.7	ug/L	91	75 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	85 - 115
2037-26-5	Toluene d8	50	51.4	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 23:46	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 23:46	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.37	ug/L	**68***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:46	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:41	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**11.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.68B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**9550**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**78.0**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**30.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**2570**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**472000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**8.39B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**18.4B**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:02	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**14700**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**10.8**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.14B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**9680**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**75.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**31.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**2470**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**481000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.51B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**8.64B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**18.4B**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:37	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**14700**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1310**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:40	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:32	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.013**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:02	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**212**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**396**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**333**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:48	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:38	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:51	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:51	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 00:33	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 00:33	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.42	ug/L	70	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:49	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08433B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:48	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08023B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**23.0**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.21B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.23B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**35500**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.56B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.78B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6040**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**6.15B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**321000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**276**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:10	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39300**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**23.4**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.63B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**36100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.81B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.07B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6150**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.03B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**323000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.52B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**32.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**305**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:44	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39900**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1130**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:44	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:35	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.339**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:55	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**251**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**329**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**200**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:39	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:12	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:12	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	51.5	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 01:20	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.145U	0.521	0.145	ug/L
99-65-0	1,3-Dinitrobenzene	0.263U	1.04	0.263	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.316U	1.04	0.316	ug/L
121-14-2	2,4-Dinitrotoluene	0.130U	0.521	0.130	ug/L
606-20-2	2,6-Dinitrotoluene	0.113U	0.521	0.113	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.130U	0.521	0.130	ug/L
88-72-2	2-Nitrotoluene	0.093U	0.521	0.093	ug/L
99-08-1	3-Nitrotoluene	0.111U	0.521	0.111	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.113U	0.521	0.113	ug/L
99-99-0	4-Nitrotoluene	0.121U	0.521	0.121	ug/L
2691-41-0	HMX	0.036U	0.208	0.036	ug/L
98-95-3	Nitrobenzene	0.142U	0.521	0.142	ug/L
121-82-4	RDX	0.069U	0.208	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 01:20	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.208U	0.521	0.208	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.08	1.26	ug/L	**60***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:52	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09305B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:51	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**16.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**2.47B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.2**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**35800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.45B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.93B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6640**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**531000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**25.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**210**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:18	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.12B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**36100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**6.66B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6710**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**4.49B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**533000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.37B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**27.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**219**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:55	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39100**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1720**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:45	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:37	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.207**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 21:12	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**431**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**514**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**180**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:40	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280413	**TB-4**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:32	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280413	**TB-4**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:32	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.9	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:35	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**5.42**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:35	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	46.4	ug/L	93	85 - 115
2037-26-5	Toluene d8	50	52.6	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:07	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:07	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.49	ug/L	74	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:15	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:16	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 17:30	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**110B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.2**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.58B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.29B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**283000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**13.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.22B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17100**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**21.6B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 17:30	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**4.00B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**347**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 13:27	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2170000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 16:53	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**303000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.49B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 15:33	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**4.75B**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**15.0**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.40B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**2.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**17.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**283000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**13.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**18300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**22.4B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**6.46B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 15:33	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**366**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 11:04	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2480000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 15:30	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**339000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9500**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	10/01/2011 11:03	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.511**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:32	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 18:50	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1630**	**200**	**79.0**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	10/07/2011 09:26	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3970**	**200**	**42.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**59.3**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:53	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:06	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:56	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**1.41J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:56	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**0.891J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	46.8	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:54	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:54	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.57	ug/L	78	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:18	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08165J**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:20	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:15	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**100.0J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**17.4**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.16J**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**8.46J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**47.1J**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**236000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**17.8J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**8.97J**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.3J**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:15	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**14.8J**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**394**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:19	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2080000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:25	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**259000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:05	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**3.83J**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**16.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.19J**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.17J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**257000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**18.8J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**9.23J**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17700**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.1J**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**10.5J**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:05	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**413**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:20	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2080000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:01	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**285000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7640**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 10:50	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.899**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:36	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 19:42	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3060**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1810**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.4**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:55	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:08	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 13:17	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.50J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**1.04J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 13:17	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	46.9	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.9	ug/L	96	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:37	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.38J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:37	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**3.55J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	47.1	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	53.1	ug/L	106	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 03:41	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 03:41	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	2.1	ug/L	104	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:21	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:23	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.10037B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:22	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**2.23B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	Copper	1.69U	10.0	1.69	ug/L
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.12B**	**40.0**	**0.84**	**ug/L**
7440-09-7	Potassium	100U	500	100	ug/L
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	**Silver**	**0.67B**	**10.0**	**0.64**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:22	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**13.6B**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 14:26	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**2.10B**	**15.0**	**2.00**	**ug/L**
7440-23-5	Sodium	200U	1000	200	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:41	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	Barium	1.59U	10.0	1.59	ug/L
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	Copper	1.69U	10.0	1.69	ug/L
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	Potassium	100U	500	100	ug/L
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	Zinc	5.89U	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 12:28	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	50.0U	100	50.0	ug/L
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7440-23-5	Sodium	200U	1000	200	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7.00U	10.0	7.00	mg/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:48	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:33	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/06/2011 20:35	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.104**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:30	DJH	466580

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.34U	1.0	0.34	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:11	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:19	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**0.909J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:19	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	45.5	ug/L	91	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 04:28	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 04:28	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.23	ug/L	**61***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:04	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:05	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.10199B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:29	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**85.3B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**17.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.37B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.92B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**60.5B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**255000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**23.7B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**40.6**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16500**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**23.2B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.01B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:29	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**11.0B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**239**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:34	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2100000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:31	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**251000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.12B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:48	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.5**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.12B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**3.73B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**258000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**22.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**39.4B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**20.1B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**10.6B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:48	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**234**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:35	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2220000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:08	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**267000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7610**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:49	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.245**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:35	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.003B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 20:53	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3130**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1580**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.8**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:12	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:41	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**1.75J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:41	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**1.37J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	45.9	ug/L	92	85 - 115
2037-26-5	Toluene d8	50	51.2	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 05:15	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 05:15	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.36	ug/L	**67***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:24	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09168B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:26	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:36	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**200**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.53B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**2.88B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.3**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**162**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**270000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**9.56B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**17000**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**29.6B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.45B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:36	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**12.1B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**276**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:41	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2540000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:37	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**317000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.87B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:55	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**11.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.23B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**1.33B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.1**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**272000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**8.60B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**17400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**29.7B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**13.4B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:55	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**271**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:43	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2580000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:16	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**334000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9870**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:04	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.430**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:41	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.005B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 21:45	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3920**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1880**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**53.5**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:13	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:15	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0009B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:58	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.31J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:58	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	46.3	ug/L	93	85 - 115
2037-26-5	Toluene d8	50	53	ug/L	106	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	70 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398	**Client ID**	MB466398			LCS466398			LCSD466398			
Prep Batch N/A	**GCAL ID**	992648			992649			992650			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	1.59J	0.322	50.0	56.5	113	40 - 140	59.4	119	5	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	50.5	101	65 - 130	50.5	101	0	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	50.4	101	75 - 120	50.4	101	0	30
75-25-2	Bromoform	0.278U	0.278	50.0	50.1	100	70 - 130	50.9	102	2	30
74-83-9	Bromomethane	0.276U	0.276	50.0	48.7	97	30 - 145	50.5	101	4	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	47.9	96	35 - 160	46.9	94	2	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	53.3	107	65 - 140	51.1	102	4	30
75-00-3	Chloroethane	0.279U	0.279	50.0	60.6	121	60 - 135	60.6	121	0	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	102	102	75 - 130	99.0	99	3	30
67-66-3	Chloroform	0.062U	0.062	50.0	50.7	101	65 - 135	50.2	100	1	30
74-87-3	Chloromethane	0.076U	0.076	50.0	56.6	113	40 - 125	54.0	108	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	48.9	98	75 - 125	49.7	99	2	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	48.6	97	30 - 155	45.8	92	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	55.3	111	70 - 135	53.6	107	3	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	48.4	97	70 - 130	47.5	95	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.0	106	70 - 125	52.5	105	0.9	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	55.8	112	60 - 140	55.1	110	1	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	54.0	108	55 - 140	53.8	108	0.4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.3	105	75 - 125	52.9	106	1	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	55.0	110	70 - 130	53.4	107	3	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	51.3	103	55 - 140	50.7	101	1	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	49.6	99	75 - 125	48.2	96	3	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	52.0	104	55 - 130	53.7	107	3	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.8	106	75 - 125	51.3	103	3	30
78-93-3	2-Butanone	0.235U	0.235	50.0	52.2	104	30 - 150	55.2	110	6	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	48.1	96	60 - 135	49.8	100	3	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	53.3	107	70 - 130	50.7	101	5	30
100-42-5	Styrene	0.058U	0.058	50.0	52.0	104	65 - 135	52.0	104	0	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.2	106	45 - 150	50.2	100	6	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.7	103	80 - 130	50.3	101	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	48.8	98	65 - 130	49.4	99	1	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	57.2	114	65 - 135	56.8	114	0.7	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	54.5	109	65 - 130	52.3	105	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398		**Client ID**	MB466398			LCS466398			LCSD466398		
Prep Batch N/A		**GCAL ID**	992648			992649			992650		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	49.2	98	75 - 125	48.9	98	0.6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	51.6	103	60 - 145	49.8	100	4	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.9	94	75 - 125	47.7	95	2	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	52.8	106	75 - 130	51.0	102	3	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	53.3	107	75 - 130	51.4	103	4	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	54.5	109	50 - 145	52.8	106	3	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.1	104	80 - 120	51.7	103	0.8	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	52.9	106	50 - 130	53.9	108	2	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	49.0	98	80 - 120	48.8	98	0.4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	53.7	107	65 - 125	55.3	111	3	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	55.4	111	75 - 130	53.1	106	4	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	55.3	111	70 - 135	53.4	107	3	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	53.9	108	75 - 130	51.9	104	4	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	50.5	101	75 - 125	50.3	101	0.4	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.2	104	75 - 125	51.3	103	2	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.4	103	75 - 125	50.0	100	3	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	51.7	103	75 - 130	50.6	101	2	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	53.8	108	70 - 130	52.0	104	3	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	54.8	110	70 - 125	52.8	106	4	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	53.3	107	75 - 125	51.7	103	3	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	52.4	105	75 - 125	52.2	104	0.4	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	51.2	102	70 - 135	49.6	99	3	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.9	104	70 - 120	51.7	103	0.4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	59.8	120	50 - 140	59.0	118	1	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.2	106	55 - 140	55.8	112	5	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.4	111	55 - 140	56.3	113	2	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	51.9	104	70 - 130	50.5	101	3	30
71-43-2	Benzene		0.049U	0.049	50.0	52.8	106	80 - 120	51.8	104	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.0	102	70 - 125	49.5	99	3	30
108-88-3	Toluene		0.078U	0.078	50.0	53.7	107	75 - 120	51.9	104	3	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.2	102	80 - 120	50.8	102	0.8	30
Surrogate												
460-00-4	4-Bromofluorobenzene		51.7	103	50	49.5	99	75 - 120	50.1	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398		**Client ID**	MB466398			LCS466398			LCSD466398		
Prep Batch N/A		**GCAL ID**	992648			992649			992650		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		48.2	96	50	50.7	101	85 - 115	50.3	101		
2037-26-5	Toluene d8		52.6	105	50	50.6	101	85 - 120	50.4	101		
17060-07-0	1,2-Dichloroethane-d4		46.9	94	50	48.9	98	70 - 120	49.3	99		

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	44.9	90	40 - 140	45.0	90	0.2	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	52.3	105	65 - 130	51.0	102	3	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	50.6	101	75 - 120	49.1	98	3	30
75-25-2	Bromoform		0.278U	0.278	50.0	57.4	115	70 - 130	57.7	115	0.5	30
74-83-9	Bromomethane		0.276U	0.276	50.0	50.9	102	30 - 145	50.6	101	0.6	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	48.7	97	35 - 160	47.2	94	3	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.9	98	65 - 140	47.1	94	4	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.7	103	60 - 135	48.4	97	7	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	104	104	75 - 130	103	103	1	30
67-66-3	Chloroform		0.062U	0.062	50.0	46.9	94	65 - 135	45.9	92	2	30
74-87-3	Chloromethane		0.076U	0.076	50.0	48.8	98	40 - 125	47.3	95	3	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	50.1	100	75 - 125	49.6	99	1	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	45.4	91	30 - 155	44.5	89	2	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	48.1	96	70 - 135	46.5	93	3	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	46.3	93	70 - 130	45.6	91	2	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	49.6	99	70 - 125	47.7	95	4	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	46.8	94	60 - 140	45.8	92	2	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	48.9	98	55 - 140	47.3	95	3	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	50.8	102	75 - 125	49.6	99	2	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	54.7	109	70 - 130	53.7	107	2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	54.6	109	55 - 140	53.7	107	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
100-41-4	Ethylbenzene	0.180U	0.180		50.0	53.8	108	75 - 125	53.2	106	1	30
591-78-6	2-Hexanone	0.302U	0.302		50.0	50.6	101	55 - 130	50.8	102	0.4	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058		50.0	50.6	101	75 - 125	50.0	100	1	30
78-93-3	2-Butanone	0.235U	0.235		50.0	48.3	97	30 - 150	47.8	96	1	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142		50.0	54.1	108	60 - 135	54.4	109	0.6	30
103-65-1	n-Propylbenzene	0.069U	0.069		50.0	52.5	105	70 - 130	50.7	101	3	30
100-42-5	Styrene	0.058U	0.058		50.0	52.1	104	65 - 135	51.9	104	0.4	30
127-18-4	Tetrachloroethene	0.141U	0.141		50.0	51.5	103	45 - 150	50.5	101	2	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	52.4	105	80 - 130	52.5	105	0.2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	47.7	95	65 - 130	48.0	96	0.6	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	55.9	112	65 - 135	53.5	107	4	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	48.6	97	65 - 130	47.1	94	3	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	51.9	104	75 - 125	52.0	104	0.2	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	44.4	89	60 - 145	42.8	86	4	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	50.6	101	75 - 125	50.0	100	1	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	51.3	103	75 - 130	49.8	100	3	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	55.0	110	75 - 130	53.7	107	2	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	48.2	96	50 - 145	46.4	93	4	30
95-47-6	o-Xylene	0.077U	0.077		50.0	52.9	106	80 - 120	52.0	104	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	48.8	98	50 - 130	49.0	98	0.4	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	54.8	110	80 - 120	54.5	109	0.5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	50.4	101	65 - 125	50.1	100	0.6	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	50.4	101	75 - 130	49.0	98	3	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	47.7	95	70 - 135	46.7	93	2	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	51.6	103	75 - 130	50.3	101	3	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	52.2	104	75 - 125	52.0	104	0.4	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	47.9	96	75 - 125	47.1	94	2	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	52.4	105	75 - 125	50.3	101	4	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	51.4	103	75 - 130	50.3	101	2	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	54.2	108	70 - 130	52.4	105	3	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	53.7	107	70 - 125	52.4	105	2	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	49.9	100	75 - 125	48.7	97	2	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	48.5	97	75 - 125	47.4	95	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	54.0	108	70 - 135	51.8	104	4	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	50.5	101	70 - 120	49.2	98	3	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	51.2	102	50 - 140	47.7	95	7	30
91-20-3	Naphthalene		0.175U	0.175	50.0	50.8	102	55 - 140	50.3	101	1	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	54.8	110	55 - 140	53.4	107	3	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.1	96	70 - 130	46.6	93	3	30
71-43-2	Benzene		0.049U	0.049	50.0	49.8	100	80 - 120	48.8	98	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.3	103	70 - 125	50.7	101	1	30
108-88-3	Toluene		0.078U	0.078	50.0	49.4	99	75 - 120	49.2	98	0.4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	49.5	99	80 - 120	49.7	99	0.4	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.7	99	50	53.5	107	75 - 120	53	106		
1868-53-7	Dibromofluoromethane		48.3	97	50	49.1	98	85 - 115	49	98		
2037-26-5	Toluene d8		52	104	50	50.6	101	85 - 120	50.7	101		
17060-07-0	1,2-Dichloroethane-d4		46.6	93	50	46.3	93	70 - 120	46.7	93		

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	52.9	106	80 - 130	51.8	104	2	30
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	52.8	106	65 - 130	50.5	101	4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	52.4	105	65 - 130	51.9	104	1	30
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	51.8	104	75 - 125	51.7	103	0.2	30
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	51.0	102	70 - 135	49.0	98	4	30
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	50.8	102	70 - 130	49.0	98	4	30
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	55.1	110	75 - 130	52.3	105	5	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	52.0	104	55 - 140	52.5	105	1	30
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	52.2	104	75 - 125	50.7	101	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138		50.0	53.6	107	65 - 135	54.5	109	2	30
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080		50.0	52.5	105	75 - 130	51.7	103	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082		50.0	49.8	100	50 - 130	48.4	97	3	30
106-93-4	1,2-Dibromoethane	0.00	0.169		50.0	53.2	106	80 - 120	53.2	106	0	30
95-50-1	1,2-Dichlorobenzene	0.00	0.086		50.0	51.6	103	70 - 120	51.0	102	1	30
107-06-2	1,2-Dichloroethane	0.00	0.121		50.0	52.3	105	70 - 130	49.6	99	5	30
78-87-5	1,2-Dichloropropane	0.00	0.114		50.0	52.7	105	75 - 125	51.4	103	2	30
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053		50.0	56.6	113	75 - 130	55.6	111	2	30
541-73-1	1,3-Dichlorobenzene	0.00	0.080		50.0	50.6	101	65 - 130	50.1	100	1	30
142-28-9	1,3-Dichloropropane	0.00	0.113		50.0	52.3	105	75 - 125	52.3	105	0	30
106-46-7	1,4-Dichlorobenzene	0.00	0.058		50.0	50.2	100	65 - 130	48.9	98	3	30
594-20-7	2,2-Dichloropropane	0.00	0.112		50.0	53.9	108	70 - 135	50.6	101	6	30
78-93-3	2-Butanone	0.00	0.235		50.0	41.3	83	30 - 150	40.4	81	2	30
95-49-8	2-Chlorotoluene	0.00	0.090		50.0	53.5	107	75 - 125	53.7	107	0.4	30
591-78-6	2-Hexanone	0.00	0.302		50.0	43.7	87	55 - 130	44.0	88	0.7	30
106-43-4	4-Chlorotoluene	0.00	0.046		50.0	54.0	108	75 - 130	52.8	106	2	30
99-87-6	4-Isopropyltoluene	0.00	0.175		50.0	51.1	102	75 - 130	50.1	100	2	30
108-10-1	4-Methyl-2-pentanone	0.00	0.142		50.0	57.1	114	60 - 135	54.2	108	5	30
67-64-1	Acetone	0.00	0.322		50.0	28.9	58	40 - 140	27.8	56	4	30
71-43-2	Benzene	0.00	0.049		50.0	52.3	105	80 - 120	49.9	100	5	30
108-86-1	Bromobenzene	0.00	0.095		50.0	49.8	100	75 - 125	49.5	99	0.6	30
74-97-5	Bromochloromethane	0.00	0.238		50.0	53.3	107	65 - 130	51.2	102	4	30
75-27-4	Bromodichloromethane	0.00	0.071		50.0	54.2	108	75 - 120	51.3	103	5	30
75-25-2	Bromoform	0.00	0.278		50.0	58.4	117	70 - 130	57.0	114	2	30
74-83-9	Bromomethane	0.00	0.276		50.0	47.4	95	30 - 145	47.1	94	0.6	30
75-15-0	Carbon disulfide	0.00	0.190		50.0	51.6	103	35 - 160	49.3	99	5	30
56-23-5	Carbon tetrachloride	0.00	0.056		50.0	53.2	106	65 - 140	49.1	98	8	30
108-90-7	Chlorobenzene	0.00	0.055		50.0	49.3	99	80 - 120	49.3	99	0	30
75-00-3	Chloroethane	0.00	0.279		50.0	58.6	117	60 - 135	56.5	113	4	30
67-66-3	Chloroform	0.00	0.062		50.0	49.1	98	65 - 135	46.6	93	5	30
74-87-3	Chloromethane	0.00	0.076		50.0	53.1	106	40 - 125	50.3	101	5	30
74-95-3	Dibromomethane	0.00	0.197		50.0	54.2	108	75 - 125	51.2	102	6	30
75-71-8	Dichlorodifluoromethane	0.00	0.088		50.0	49.0	98	30 - 155	46.4	93	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.00	0.180	50.0	53.5	107	75 - 125	52.5	105	2	30
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	49.0	98	50 - 140	48.9	98	0.2	30
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	51.2	102	75 - 125	49.9	100	3	30
75-09-2	Methylene chloride		0.00	0.102	50.0	54.8	110	55 - 140	51.8	104	6	30
91-20-3	Naphthalene		0.00	0.175	50.0	48.5	97	55 - 140	49.1	98	1	30
100-42-5	Styrene		0.00	0.058	50.0	51.3	103	65 - 135	50.4	101	2	30
127-18-4	Tetrachloroethene		0.00	0.141	50.0	49.6	99	45 - 150	49.4	99	0.4	30
108-88-3	Toluene		0.00	0.078	50.0	49.3	99	75 - 120	49.1	98	0.4	30
79-01-6	Trichloroethene		0.00	0.094	50.0	51.5	103	70 - 125	49.3	99	4	30
75-69-4	Trichlorofluoromethane		0.00	0.094	50.0	50.7	101	60 - 145	47.2	94	7	30
75-01-4	Vinyl chloride		0.00	0.104	50.0	50.1	100	50 - 145	48.1	96	4	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	53.4	107	70 - 125	50.6	101	5	30
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	55.0	110	70 - 130	53.6	107	3	30
136777-61-2	m,p-Xylene		0.00	0.099	100	104	104	75 - 130	102	102	2	30
104-51-8	n-Butylbenzene		0.00	0.068	50.0	55.6	111	70 - 135	54.0	108	3	30
103-65-1	n-Propylbenzene		0.00	0.069	50.0	53.5	107	70 - 130	52.5	105	2	30
95-47-6	o-Xylene		0.00	0.077	50.0	51.9	104	80 - 120	50.6	101	3	30
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	54.1	108	70 - 125	53.4	107	1	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.084	50.0	53.2	106	65 - 125	50.8	102	5	30
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	57.4	115	70 - 130	55.7	111	3	30
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	50.9	102	60 - 140	48.1	96	6	30
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	58.7	117	55 - 140	55.3	111	6	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	50.6	101	75 - 120	51.4	103		
1868-53-7	Dibromofluoromethane		48.6	97	50	50.3	101	85 - 115	49.7	99		
2037-26-5	Toluene d8		52.1	104	50	48.5	97	85 - 120	49	98		
17060-07-0	1,2-Dichloroethane-d4		47.7	95	50	50.3	101	70 - 120	48.3	97		

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441	**Client ID**	MB466441	LCS466441
Prep Batch N/A	**GCAL ID**	992820	992821
	Sample Type	Method Blank	LCS
	Analytical Date	10/03/2011 08:40	10/03/2011 07:59
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	51.4	103	40 - 140
74-97-5	Bromochloromethane	0.238U	0.238	50.0	52.7	105	65 - 130
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	53.0	106	75 - 120
75-25-2	Bromoform	0.278U	0.278	50.0	52.6	105	70 - 130
74-83-9	Bromomethane	0.276U	0.276	50.0	48.1	96	30 - 145
75-15-0	Carbon disulfide	0.190U	0.190	50.0	53.2	106	35 - 160
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	59.5	119	65 - 140
75-00-3	Chloroethane	0.279U	0.279	50.0	57.0	114	60 - 135
136777-61-2	m,p-Xylene	0.099U	0.099	100	104	104	75 - 130
67-66-3	Chloroform	0.062U	0.062	50.0	48.6	97	65 - 135
74-87-3	Chloromethane	0.076U	0.076	50.0	42.9	86	40 - 125
74-95-3	Dibromomethane	0.197U	0.197	50.0	51.9	104	75 - 125
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	49.9	100	30 - 155
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.7	101	70 - 135
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	52.0	104	70 - 130
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.2	106	70 - 125
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	51.7	103	60 - 140
75-09-2	Methylene chloride	0.102U	0.102	50.0	55.9	112	55 - 140
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.3	105	75 - 125
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	56.5	113	70 - 130
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	56.1	112	55 - 140
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.8	106	75 - 125
591-78-6	2-Hexanone	0.302U	0.302	50.0	47.4	95	55 - 130
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	51.4	103	75 - 125
78-93-3	2-Butanone	0.235U	0.235	50.0	48.6	97	30 - 150
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	52.4	105	60 - 135
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	56.0	112	70 - 130
100-42-5	Styrene	0.058U	0.058	50.0	50.7	101	65 - 135
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	49.1	98	45 - 150
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.2	102	80 - 130
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	49.4	99	65 - 130
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	59.5	119	65 - 135
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	52.8	106	65 - 130

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441	**Client ID**	MB466441	LCS466441
Prep Batch N/A	**GCAL ID**	992820	992821
	Sample Type	Method Blank	LCS
	Analytical Date	10/03/2011 08:40	10/03/2011 07:59
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	49.8	100	75 - 125
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	52.2	104	60 - 145
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	49.6	99	75 - 125
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	54.9	110	75 - 130
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	58.9	118	75 - 130
75-01-4	Vinyl chloride	0.104U	0.104	50.0	50.2	100	50 - 145
95-47-6	o-Xylene	0.077U	0.077	50.0	51.0	102	80 - 120
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	44.4	89	50 - 130
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 120
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	51.4	103	65 - 125
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	53.7	107	75 - 130
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	53.8	108	70 - 135
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	54.9	110	75 - 130
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	51.2	102	75 - 125
108-86-1	Bromobenzene	0.095U	0.095	50.0	51.0	102	75 - 125
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	55.5	111	75 - 125
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	55.1	110	75 - 130
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	59.9	120	70 - 130
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	57.6	115	70 - 125
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	75 - 125
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	50.2	100	75 - 125
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	60.4	121	70 - 135
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	52.3	105	70 - 120
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	56.8	114	50 - 140
91-20-3	Naphthalene	0.175U	0.175	50.0	50.3	101	55 - 140
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	57.0	114	55 - 140
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	51.1	102	70 - 130
71-43-2	Benzene	0.049U	0.049	50.0	51.7	103	80 - 120
79-01-6	Trichloroethene	0.094U	0.094	50.0	50.6	101	70 - 125
108-88-3	Toluene	0.078U	0.078	50.0	49.3	99	75 - 120
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.2	98	80 - 120
Surrogate							
460-00-4	4-Bromofluorobenzene	46.9	94	50	50	100	75 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441		**Client ID**	MB466441		LCS466441		
Prep Batch N/A		**GCAL ID**	992820		992821		
		Sample Type	Method Blank		LCS		
		Analytical Date	10/03/2011 08:40		10/03/2011 07:59		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
1868-53-7	Dibromofluoromethane	49.6	99	50	50.9	102	85 - 115
2037-26-5	Toluene d8	51	102	50	49.5	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	49.8	100	50	50.1	100	70 - 120

Analytical Batch 466593		**Client ID**	MB466593		LCS466593			LCSD466593			
Prep Batch N/A		**GCAL ID**	993481		993482			993483			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	10/05/2011 09:02		10/05/2011 07:00			10/05/2011 07:59			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	47.3	95	40 - 140	40.5	81	15	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	47.7	95	65 - 130	46.7	93	2	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	46.4	93	75 - 120	45.1	90	3	30
75-25-2	Bromoform	0.278U	0.278	50.0	47.0	94	70 - 130	44.3	89	6	30
74-83-9	Bromomethane	0.276U	0.276	50.0	45.3	91	30 - 145	48.5	97	7	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	44.0	88	35 - 160	41.0	82	7	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	47.3	95	65 - 140	45.3	91	4	30
75-00-3	Chloroethane	0.279U	0.279	50.0	55.7	111	60 - 135	50.6	101	10	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	101	101	75 - 130	95.2	95	6	30
67-66-3	Chloroform	0.062U	0.062	50.0	46.9	94	65 - 135	45.9	92	2	30
74-87-3	Chloromethane	0.076U	0.076	50.0	51.4	103	40 - 125	49.0	98	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	47.9	96	75 - 125	46.5	93	3	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	41.1	82	30 - 155	39.4	79	4	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.9	102	70 - 135	49.4	99	3	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	46.9	94	70 - 130	45.1	90	4	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	51.5	103	70 - 125	49.6	99	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	53.7	107	60 - 140	50.0	100	7	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	51.4	103	55 - 140	50.1	100	3	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	50.4	101	75 - 125	49.4	99	2	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	50.9	102	70 - 130	49.7	99	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	49.0	98	55 - 140	48.8	98	0.4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466593		**Client ID**	MB466593			LCS466593			LCSD466593		
Prep Batch N/A		**GCAL ID**	993481			993482			993483		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/05/2011 09:02			10/05/2011 07:00			10/05/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	48.8	98	75 - 125	46.3	93	5	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	50.0	100	55 - 130	44.5	89	12	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	52.1	104	75 - 125	49.4	99	5	30
78-93-3	2-Butanone		0.235U	0.235	50.0	48.3	97	30 - 150	42.1	84	14	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	48.2	96	60 - 135	43.6	87	10	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.0	102	70 - 130	48.1	96	6	30
100-42-5	Styrene		0.058U	0.058	50.0	52.1	104	65 - 135	50.7	101	3	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	50.2	100	45 - 150	48.2	96	4	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	47.3	95	80 - 130	46.0	92	3	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	44.2	88	65 - 130	41.3	83	7	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	55.8	112	65 - 135	54.1	108	3	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	50.3	101	65 - 130	47.1	94	7	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	47.7	95	75 - 125	46.8	94	2	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	46.6	93	60 - 145	43.3	87	7	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.9	94	75 - 125	43.0	86	9	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	51.5	103	75 - 130	49.2	98	5	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	51.5	103	75 - 130	48.6	97	6	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	49.7	99	50 - 145	45.3	91	9	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.1	104	80 - 120	49.9	100	4	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	51.2	102	50 - 130	45.4	91	12	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	48.9	98	80 - 120	47.3	95	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	52.1	104	65 - 125	50.5	101	3	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	55.2	110	75 - 130	52.1	104	6	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	51.6	103	70 - 135	50.5	101	2	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	50.8	102	75 - 130	47.1	94	8	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	49.7	99	75 - 125	48.4	97	3	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	50.7	101	75 - 125	48.5	97	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	49.5	99	75 - 125	46.7	93	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	51.8	104	75 - 130	49.3	99	5	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	52.1	104	70 - 130	48.9	98	6	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.2	106	70 - 125	50.0	100	6	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	52.4	105	75 - 125	50.0	100	5	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	53.5	107	75 - 125	50.9	102	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466593		**Client ID**	MB466593			LCS466593			LCSD466593		
Prep Batch N/A		**GCAL ID**	993481			993482			993483		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/05/2011 09:02			10/05/2011 07:00			10/05/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	50.1	100	70 - 135	46.9	94	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.9	104	70 - 120	49.7	99	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	59.8	120	50 - 140	57.1	114	5	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.7	107	55 - 140	50.5	101	6	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	54.9	110	55 - 140	52.7	105	4	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	49.6	99	70 - 130	46.0	92	8	30
71-43-2	Benzene		0.049U	0.049	50.0	51.3	103	80 - 120	47.7	95	7	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.8	104	70 - 125	47.3	95	9	30
108-88-3	Toluene		0.078U	0.078	50.0	51.3	103	75 - 120	49.5	99	4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	50.6	101	80 - 120	49.0	98	3	30
Surrogate												
460-00-4	4-Bromofluorobenzene		51.1	102	50	51	102	75 - 120	50.6	101		
1868-53-7	Dibromofluoromethane		46.3	93	50	46.3	93	85 - 115	48.1	96		
2037-26-5	Toluene d8		52.3	105	50	50	100	85 - 120	50.9	102		
17060-07-0	1,2-Dichloroethane-d4		47.1	94	50	48.5	97	70 - 120	48.4	97		

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	46.8	94	40 - 140	37.5	75	22	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	49.0	98	65 - 130	46.4	93	5	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	47.7	95	75 - 120	46.2	92	3	30
75-25-2	Bromoform		0.278U	0.278	50.0	46.6	93	70 - 130	43.6	87	7	30
74-83-9	Bromomethane		0.276U	0.276	50.0	43.8	88	30 - 145	48.4	97	10	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	42.6	85	35 - 160	40.2	80	6	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.8	98	65 - 140	46.0	92	6	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.9	104	60 - 135	50.0	100	4	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	103	103	75 - 130	94.8	95	8	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-66-3	Chloroform		0.062U	0.062	50.0	48.9	98	65 - 135	45.6	91	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	49.3	99	40 - 125	47.3	95	4	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	49.5	99	75 - 125	46.6	93	6	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	40.5	81	30 - 155	37.0	74	9	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	53.5	107	70 - 135	49.2	98	8	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	48.7	97	70 - 130	45.3	91	7	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	52.4	105	70 - 125	49.1	98	7	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	54.0	108	60 - 140	49.6	99	8	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	52.2	104	55 - 140	48.4	97	8	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	52.9	106	75 - 125	50.2	100	5	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	52.9	106	70 - 130	53.1	106	0.4	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	51.1	102	55 - 140	52.2	104	2	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	50.2	100	75 - 125	46.6	93	7	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	52.5	105	55 - 130	44.5	89	16	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	53.9	108	75 - 125	49.6	99	8	30
78-93-3	2-Butanone		0.235U	0.235	50.0	49.2	98	30 - 150	41.3	83	17	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	50.2	100	60 - 135	45.0	90	11	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	52.8	106	70 - 130	50.7	101	4	30
100-42-5	Styrene		0.058U	0.058	50.0	53.8	108	65 - 135	49.9	100	8	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	51.6	103	45 - 150	48.3	97	7	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	49.4	99	80 - 130	47.3	95	4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	42.2	84	65 - 130	41.0	82	3	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	56.6	113	65 - 135	53.2	106	6	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	52.7	105	65 - 130	49.0	98	7	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	49.8	100	75 - 125	46.3	93	7	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	47.6	95	60 - 145	43.3	87	9	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	47.9	96	75 - 125	44.7	89	7	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	53.9	108	75 - 130	51.2	102	5	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.8	106	75 - 130	50.7	101	4	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	49.0	98	50 - 145	45.1	90	8	30
95-47-6	o-Xylene		0.077U	0.077	50.0	53.6	107	80 - 120	49.7	99	8	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	50.2	100	50 - 130	46.0	92	9	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	50.6	101	80 - 120	47.4	95	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	54.0	108	65 - 125	49.7	99	8	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	56.1	112	75 - 130	54.0	108	4	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	55.6	111	70 - 135	52.1	104	6	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	51.2	102	75 - 130	48.2	96	6	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	52.0	104	75 - 125	48.7	97	7	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.4	105	75 - 125	50.2	100	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	50.7	101	75 - 125	48.8	98	4	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	52.8	106	75 - 130	50.5	101	4	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	53.9	108	70 - 130	51.3	103	5	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	54.7	109	70 - 125	52.0	104	5	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	52.9	106	75 - 125	50.1	100	5	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	54.1	108	75 - 125	51.1	102	6	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	51.4	103	70 - 135	49.0	98	5	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	52.2	104	70 - 120	48.3	97	8	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	58.9	118	50 - 140	58.3	117	1	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.9	108	55 - 140	49.3	99	9	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.8	112	55 - 140	51.8	104	7	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.2	96	70 - 130	44.1	88	9	30
71-43-2	Benzene		0.049U	0.049	50.0	51.5	103	80 - 120	47.3	95	9	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	54.1	108	70 - 125	49.7	99	8	30
108-88-3	Toluene		0.078U	0.078	50.0	53.3	107	75 - 120	48.5	97	9	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.6	103	80 - 120	48.1	96	7	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.6	101	50	50.2	100	75 - 120	48.4	97		
1868-53-7	Dibromofluoromethane		46.2	92	50	47	94	85 - 115	48.5	97		
2037-26-5	Toluene d8		53.2	106	50	50.6	101	85 - 120	50.3	101		
17060-07-0	1,2-Dichloroethane-d4		47	94	50	48.7	97	70 - 120	49.3	99		

General Chromatography Quality Control Summary

Analytical Batch	466694	**Client ID**	MB466485			LCS466485			LCSD466485		
Prep Batch	466485	**GCAL ID**	993011			993012			993013		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS			LCSD		
	8330A	**Prep Date**	10/04/2011 12:30			10/04/2011 12:30			10/04/2011 12:30		
		Analytical Date	10/05/2011 15:41			10/05/2011 16:28			10/05/2011 17:15		
		Matrix	Water			Water			Water		
SW-846 8330A		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
2691-41-0	HMX		0.018U	0.018	2.00	2.16	108	80 - 115	2.25	113	4	30
121-82-4	RDX		0.033U	0.033	2.00	1.82	91	50 - 160	1.95	98	7	30
99-35-4	1,3,5-Trinitrobenzene		0.070U	0.070	2.00	2.06	103	65 - 140	2.14	107	4	30
99-65-0	1,3-Dinitrobenzene		0.126U	0.126	4.00	2.13	53	45 - 160	2.14	54	0.5	30
479-45-8	Tetryl		0.100U	0.100	2.00	1.47	74	20 - 175	1.37	69	7	30
98-95-3	Nitrobenzene		0.068U	0.068	2.00	2.10	105	50 - 140	2.13	107	1	30
118-96-7	2,4,6-Trinitrotoluene		0.152U	0.152	2.00	2.14	107	50 - 145	2.12	106	0.9	30
1946-51-0	4-Amino-2,6-dinitrotoluene		0.054U	0.054	2.00	1.74	87	55 - 155	1.60	80	8	30
355-72-78-2	2-Amino-4,6-dinitrotoluene		0.063U	0.063	2.00	2.03	102	50 - 155	1.91	96	6	30
121-14-2	2,4-Dinitrotoluene		0.063U	0.063	2.00	2.14	107	60 - 135	2.22	111	4	30
606-20-2	2,6-Dinitrotoluene		0.054U	0.054	2.00	1.93	97	60 - 135	1.95	98	1	30
88-72-2	2-Nitrotoluene		0.045U	0.045	2.00	1.37	69	45 - 135	1.29	65	6	30
99-08-1	3-Nitrotoluene		0.054U	0.054	2.00	1.52	76	50 - 130	1.61	81	6	30
99-99-0	4-Nitrotoluene		0.058U	0.058	2.00	1.40	70	50 - 130	1.44	72	3	30
Surrogate												
528-29-0	1,2-Dinitrobenzene		2.34	117	2	1.55	78	70 - 130	1.51	76		

Analytical Batch	466694	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch	466485	**GCAL ID**	21109280402			21109280403			21109280404		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	8330A	**Prep Date**	10/04/2011 12:30			10/04/2011 12:30			10/04/2011 12:30		
		Analytical Date	10/05/2011 18:49			10/05/2011 19:36			10/05/2011 20:23		
		Matrix	Water			Water			Water		
SW-846 8330A		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
99-35-4	1,3,5-Trinitrobenzene		0.00	0.140	2.02	2.07	102	65 - 140	1.74	86	17	30
99-65-0	1,3-Dinitrobenzene		0.00	0.255	4.04	2.09	52	45 - 160	1.70	**42***	21	30
118-96-7	2,4,6-Trinitrotoluene		0.00	0.306	2.02	1.94	96	50 - 145	1.68	83	14	30
121-14-2	2,4-Dinitrotoluene		0.00	0.126	2.02	2.16	107	60 - 135	1.75	87	21	30
606-20-2	2,6-Dinitrotoluene		0.00	0.109	2.02	1.89	94	60 - 135	1.46	72	26	30
355-72-78-2	2-Amino-4,6-dinitrotoluene		0.00	0.126	2.02	1.85	92	50 - 155	1.66	82	11	30

General Chromatography Quality Control Summary

Analytical Batch	466694	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466485	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	8330A	**Prep Date**	10/04/2011 12:30	10/04/2011 12:30	10/04/2011 12:30
		Analytical Date	10/05/2011 18:49	10/05/2011 19:36	10/05/2011 20:23
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
88-72-2	2-Nitrotoluene	0.00	0.090	2.02	1.70	84	45 - 135	1.44	71	17	30
99-08-1	3-Nitrotoluene	0.00	0.108	2.02	1.51	75	50 - 130	1.15	57	27	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.00	0.109	2.02	1.51	75	55 - 155	1.33	66	13	30
99-99-0	4-Nitrotoluene	0.00	0.117	2.02	1.42	70	50 - 130	1.10	54	25	30
2691-41-0	HMX	0.00	0.035	2.02	2.30	114	80 - 115	1.84	91	22	30
98-95-3	Nitrobenzene	0.00	0.137	2.02	2.04	101	50 - 140	1.67	83	20	30
121-82-4	RDX	0.00	0.067	2.02	1.78	88	50 - 160	1.39	69	25	30
479-45-8	Tetryl	0.00	0.202	2.02	1.21	60	20 - 175	0.919	45	27	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.86	92	2.02	1.7	84	70 - 130	1.73	86		

Inorganics Quality Control Summary

Analytical Batch	466468	**Client ID**	MB466325		LCS466325		
Prep Batch	466325	**GCAL ID**	992259		992260		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40		
		Analytical Date	10/03/2011 16:14		10/03/2011 16:16		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.075U	0.075	5.00	5.24	105	80 - 120

Analytical Batch	466468	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD				
Prep Batch	466325	**GCAL ID**	21109280402		21109280403			21109280404				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40			09/30/2011 12:40				
	Dissolved	**Analytical Date**	10/03/2011 16:27		10/03/2011 16:29			10/03/2011 16:30				
		Matrix	Water		Water			Water				
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.075	5.00	4.32	86	80 - 120	4.38	88	1	30	

Analytical Batch	466600	**Client ID**	MB466512		LCS466512							
Prep Batch	466512	**GCAL ID**	993103		993104							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	10/04/2011 11:35		10/04/2011 11:35							
		Analytical Date	10/05/2011 13:00		10/05/2011 13:02							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.07647J	0.075	5.00	5.14	103	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	466468	**Client ID**	MB466325		LCS466325		
Prep Batch	466325	**GCAL ID**	992259		992260		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40		
		Analytical Date	10/03/2011 16:14		10/03/2011 16:16		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.075U	0.075	5.00	5.24	105	80 - 120

Analytical Batch	466468	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD				
Prep Batch	466325	**GCAL ID**	21109280402		21109280403			21109280404				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40			09/30/2011 12:40				
		Analytical Date	10/03/2011 16:17		10/03/2011 16:19			10/03/2011 16:20				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.09518	0.075	5.00	4.51	88	80 - 120	4.41	86	2		30

Analytical Batch	466600	**Client ID**	MB466512		LCS466512							
Prep Batch	466512	**GCAL ID**	993103		993104							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	10/04/2011 11:35		10/04/2011 11:35							
		Analytical Date	10/05/2011 13:00		10/05/2011 13:02							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.07647J	0.075	5.00	5.14	103	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	466600	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch	466512	**GCAL ID**	21110010505			993105			993106			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35			
		Analytical Date	10/05/2011 13:04			10/05/2011 13:07			10/05/2011 13:12			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.10199	0.075	5.00	3.30	**64***	80 - 120	3.30	**64***	0.007	30

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MB466323	LCS466323
Prep Batch	466323	**GCAL ID**	992251	992252
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 23:47	10/03/2011 23:54
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4760	95	80 - 120
7440-36-0	Antimony	3.98U	3.98	500	466	93	80 - 120
7440-38-2	Arsenic	3.49U	3.49	500	464	93	80 - 120
7440-39-3	Barium	1.59U	1.59	500	469	94	80 - 120
7440-41-7	Beryllium	0.082U	0.082	500	467	93	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	468	94	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4960	99	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	468	94	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	460	92	80 - 120
7440-50-8	Copper	1.69U	1.69	500	460	92	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4750	95	80 - 120
7439-92-1	Lead	2.83U	2.83	500	460	92	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4800	96	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	469	94	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	475	95	80 - 120
7440-02-0	Nickel	0.84U	0.84	500	475	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium	3.79U	3.79	500	456	91	80 - 120
7440-22-4	Silver	0.64U	0.64	500	476	95	80 - 120
7440-23-5	Sodium	611J	200	20000	19500	98	80 - 120
7440-28-0	Thallium	2.60U	2.60	500	466	93	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	460	92	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	464	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466323	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/04/2011 00:01	10/04/2011 00:09	10/04/2011 00:30
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4880	98	80 - 120	4730	95	3	30
7440-36-0	Antimony	5.29	3.98	500	504	100	80 - 120	500	99	0.7	30
7440-38-2	Arsenic	0.0	3.49	500	503	101	80 - 120	497	99	1	30
7440-39-3	Barium	20.7	1.59	500	495	95	80 - 120	485	93	2	30
7440-41-7	Beryllium	0.0	0.082	500	481	96	80 - 120	471	94	2	30
7440-43-9	Cadmium	0.0	0.20	500	469	94	80 - 120	458	92	2	30
7440-47-3	Chromium	1.96	1.00	500	464	93	80 - 120	456	91	2	30
7440-48-4	Cobalt	0.0	1.00	500	466	93	80 - 120	462	92	0.9	30
7440-50-8	Copper	13.7	1.69	500	489	95	80 - 120	481	94	2	30
7439-89-6	Iron	0.0	40.0	5000	4850	97	80 - 120	4700	94	3	30
7439-92-1	Lead	0.0	2.83	500	459	92	80 - 120	453	91	1	30
7439-95-4	Magnesium	61200	50.0	5000	67200	120	80 - 120	65100	**78***	3	30
7439-96-5	Manganese	10.2	2.00	500	487	95	80 - 120	481	94	1	30
7439-98-7	Molybdenum	3.37	3.75	500	502	100	80 - 120	495	98	1	30
7440-02-0	Nickel	0.0	0.84	500	463	93	80 - 120	459	92	0.7	30
7440-09-7	Potassium	7750	100	10000	17800	100	80 - 120	17300	96	3	30
7782-49-2	Selenium	0.0	3.79	500	476	95	80 - 120	475	95	0.3	30
7440-22-4	Silver	0.0	0.64	500	485	97	80 - 120	475	95	2	30
7440-23-5	Sodium	459000	200	20000	492000	**170***	80 - 120	486000	**137***	1	30
7440-28-0	Thallium	0.0	2.60	500	465	93	80 - 120	464	93	0.3	30
7440-32-6	Titanium	1.24	1.20	500	493	98	80 - 120	483	96	2	30
7440-62-2	Vanadium	29.6	3.75	500	509	96	80 - 120	503	95	1	30
7440-66-6	Zinc	339	5.89	500	810	94	80 - 120	794	91	2	30

Inorganics Quality Control Summary

Analytical Batch	466535	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch	466323	**GCAL ID**	21109280402			21109280403			21109280404		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	09/30/2011 12:40			09/30/2011 12:40			09/30/2011 12:40		
		Analytical Date	10/05/2011 16:48			10/05/2011 16:57			10/05/2011 17:03		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium		64100	50.0	5000	70400	**126***	80 - 120	69000	99	2	30

Analytical Batch	466696	**Client ID**	MB466511			LCS466511		
Prep Batch	466511	**GCAL ID**	993097			993098		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 17:17			10/06/2011 17:24		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4940	99	80 - 120
7440-36-0	Antimony		3.98U	3.98	500	478	96	80 - 120
7440-38-2	Arsenic		3.49U	3.49	500	497	99	80 - 120
7440-39-3	Barium		2.10J	1.59	500	491	98	80 - 120
7440-41-7	Beryllium		0.082U	0.082	500	490	98	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	499	100	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	5040	101	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	494	99	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	488	98	80 - 120
7440-50-8	Copper		1.69U	1.69	500	482	96	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	5020	100	80 - 120
7439-92-1	Lead		2.83U	2.83	500	495	99	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	5170	103	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	494	99	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	489	98	80 - 120
7440-02-0	Nickel		0.84U	0.84	500	494	99	80 - 120
7440-09-7	Potassium		100U	100	10000	9690	97	80 - 120
7782-49-2	Selenium		3.79U	3.79	500	496	99	80 - 120
7440-22-4	Silver		0.64U	0.64	500	490	98	80 - 120
7440-23-5	Sodium		200U	200	20000	20000	100	80 - 120
7440-28-0	Thallium		2.60U	2.60	500	493	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	MB466511	LCS466511
Prep Batch	466511	**GCAL ID**	993097	993098
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 17:17	10/06/2011 17:24
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	485	97	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	489	98	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	490	98	80 - 120

Analytical Batch	466696	**Client ID**	M114MW004	992585MS	992585MSD
Prep Batch	466511	**GCAL ID**	21110010501	993099	993100
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 17:30	10/06/2011 17:37	10/06/2011 17:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	110	60.0	5000	5140	101	80 - 120	5200	102	1	30
7440-36-0	Antimony	0.0	3.98	500	551	110	80 - 120	576	115	4	30
7440-38-2	Arsenic	0.0	3.49	500	595	119	80 - 120	624	**125***	5	30
7440-39-3	Barium	15.2	1.59	500	527	102	80 - 120	535	104	1	30
7440-41-7	Beryllium	0.0	0.082	500	508	102	80 - 120	515	103	1	30
7440-43-9	Cadmium	1.58	0.20	500	517	103	80 - 120	528	105	2	30
7440-47-3	Chromium	4.29	1.00	500	503	100	80 - 120	510	101	1	30
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	531	106	4	30
7440-50-8	Copper	13.8	1.69	500	569	111	80 - 120	576	112	1	30
7439-89-6	Iron	32.0	40.0	5000	5120	102	80 - 120	5160	103	0.9	30
7439-92-1	Lead	0.0	2.83	500	505	101	80 - 120	524	105	4	30
7439-95-4	Magnesium	283000	50.0	5000	306000	**465***	80 - 120	311000	**568***	2	30
7439-98-7	Molybdenum	13.1	3.75	500	534	104	80 - 120	552	108	3	30
7440-02-0	Nickel	1.22	0.84	500	498	99	80 - 120	516	103	4	30
7440-09-7	Potassium	17100	100	10000	28800	117	80 - 120	29100	**121***	1	30
7782-49-2	Selenium	21.6	3.79	500	611	118	80 - 120	642	**124***	5	30
7440-22-4	Silver	0.0	0.64	500	547	109	80 - 120	553	111	1	30
7440-28-0	Thallium	0.0	2.60	500	514	103	80 - 120	533	107	4	30
7440-62-2	Vanadium	4.00	3.75	500	536	106	80 - 120	543	108	1	30

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 17:30			10/06/2011 17:37			10/06/2011 17:43		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-66-6	Zinc	347	5.89	500	907	112	80 - 120	922	115	2	30
7440-32-6	Titanium	1.08	1.20	500	488	97	80 - 120	496	99	2	30

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 16:53			10/10/2011 16:59			10/10/2011 17:05		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	303000	50.0	5000	318000	**312***	80 - 120	321000	**368***	0.9	30
7439-96-5	Manganese	3.49	2.00	500	493	98	80 - 120	495	98	0.4	30

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 13:27			10/10/2011 13:50			10/10/2011 13:57		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2170000	5000	20000	2230000	**291***	80 - 120	2290000	**567***	2	30

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MB466324	LCS466324
Prep Batch	466324	**GCAL ID**	992256	992257
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 21:33	10/03/2011 21:41
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5220	104	80 - 120
7440-36-0	Antimony	3.98U	3.98	500	493	99	80 - 120
7440-38-2	Arsenic	3.49U	3.49	500	526	105	80 - 120
7440-39-3	Barium	1.59U	1.59	500	522	104	80 - 120
7440-41-7	Beryllium	0.082U	0.082	500	528	106	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	530	106	80 - 120
7440-70-2	Calcium	206	50.0	5000	5220	104	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	520	104	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	518	104	80 - 120
7440-50-8	Copper	1.69U	1.69	500	515	103	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	5200	104	80 - 120
7439-92-1	Lead	2.83U	2.83	500	515	103	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	5240	105	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	522	104	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	495	99	80 - 120
7440-02-0	Nickel	0.84U	0.84	500	532	106	80 - 120
7440-09-7	Potassium	100U	100	10000	10400	104	80 - 120
7782-49-2	Selenium	3.79U	3.79	500	524	105	80 - 120
7440-22-4	Silver	0.64U	0.64	500	538	108	80 - 120
7440-23-5	Sodium	200U	200	20000	21500	107	80 - 120
7440-28-0	Thallium	2.60U	2.60	500	525	105	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	512	102	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	532	106	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	501	100	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466324	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 21:48	10/03/2011 21:56	10/03/2011 22:02
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	5240	105	80 - 120	4820	96	8	30
7440-36-0	Antimony	0.0	3.98	500	547	109	80 - 120	493	99	10	30
7440-38-2	Arsenic	0.0	3.49	500	562	112	80 - 120	505	101	11	30
7440-39-3	Barium	18.1	1.59	500	537	104	80 - 120	488	94	9	30
7440-41-7	Beryllium	0.0	0.082	500	526	105	80 - 120	479	96	9	30
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	467	93	9	30
7440-47-3	Chromium	0.52	1.00	500	503	101	80 - 120	457	91	10	30
7440-48-4	Cobalt	0.0	1.00	500	518	104	80 - 120	462	92	11	30
7440-50-8	Copper	12.7	1.69	500	541	106	80 - 120	489	95	10	30
7439-89-6	Iron	0.0	40.0	5000	5200	104	80 - 120	4780	96	8	30
7439-92-1	Lead	0.0	2.83	500	509	102	80 - 120	455	91	11	30
7439-95-4	Magnesium	58700	50.0	5000	70500	**236***	80 - 120	67300	**172***	5	30
7439-96-5	Manganese	8.24	2.00	500	528	104	80 - 120	480	94	9	30
7439-98-7	Molybdenum	3.10	3.75	500	536	107	80 - 120	483	96	10	30
7440-02-0	Nickel	0.0	0.84	500	517	103	80 - 120	460	92	12	30
7440-09-7	Potassium	7620	100	10000	19000	113	80 - 120	17700	101	7	30
7782-49-2	Selenium	0.0	3.79	500	546	109	80 - 120	481	96	13	30
7440-22-4	Silver	0.0	0.64	500	534	107	80 - 120	484	97	10	30
7440-23-5	Sodium	430000	200	20000	522000	**463***	80 - 120	490000	**302***	6	30
7440-28-0	Thallium	0.0	2.60	500	511	102	80 - 120	460	92	11	30
7440-32-6	Titanium	0.0	1.20	500	518	104	80 - 120	473	95	9	30
7440-62-2	Vanadium	26.7	3.75	500	553	105	80 - 120	503	95	9	30
7440-66-6	Zinc	316	5.89	500	886	114	80 - 120	814	100	8	30

Inorganics Quality Control Summary

Analytical Batch	466535	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch	466324	**GCAL ID**	21109280402			21109280403			21109280404			
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD			
	Dissolved	**Prep Date**	09/30/2011 12:40			09/30/2011 12:40			09/30/2011 12:40			
		Analytical Date	10/05/2011 13:58			10/05/2011 14:06			10/05/2011 16:08			
		Matrix	Water			Water			Water			
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium		58600	50.0	5000	68700	**202***	80 - 120	69000	**208***	0.5	30

Analytical Batch	466696	**Client ID**	MB466510			LCS466510		
Prep Batch	466510	**GCAL ID**	993092			993093		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 15:19			10/06/2011 15:27		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4920	98	80 - 120
7440-36-0	Antimony		3.98U	3.98	500	482	96	80 - 120
7440-38-2	Arsenic		3.49U	3.49	500	502	100	80 - 120
7440-39-3	Barium		1.59U	1.59	500	491	98	80 - 120
7440-41-7	Beryllium		0.082U	0.082	500	498	100	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	503	101	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	5140	103	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	492	98	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper		1.69U	1.69	500	482	96	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	5000	100	80 - 120
7439-92-1	Lead		2.83U	2.83	500	502	100	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	5080	102	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	505	101	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	486	97	80 - 120
7440-02-0	Nickel		0.84U	0.84	500	499	100	80 - 120
7440-09-7	Potassium		100U	100	10000	9590	96	80 - 120
7782-49-2	Selenium		3.79U	3.79	500	510	102	80 - 120
7440-22-4	Silver		0.64U	0.64	500	497	99	80 - 120
7440-23-5	Sodium		200U	200	20000	20500	102	80 - 120
7440-28-0	Thallium		2.60U	2.60	500	497	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	MB466510	LCS466510
Prep Batch	466510	**GCAL ID**	993092	993093
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 15:19	10/06/2011 15:27
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	484	97	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	500	100	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	487	97	80 - 120

Analytical Batch	466696	**Client ID**	M114MW004	992585MS	992585MSD
Prep Batch	466510	**GCAL ID**	21110010501	993094	993095
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 15:33	10/06/2011 15:40	10/06/2011 15:45
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	55.6	60.0	5000	5210	103	80 - 120	5050	100	3	20
7440-36-0	Antimony	0.0	3.98	500	590	118	80 - 120	565	113	4	20
7440-38-2	Arsenic	4.75	3.49	500	620	**123***	80 - 120	597	118	4	20
7440-39-3	Barium	15.0	1.59	500	546	106	80 - 120	527	102	4	20
7440-41-7	Beryllium	0.0	0.082	500	534	107	80 - 120	513	103	4	20
7440-43-9	Cadmium	1.40	0.20	500	524	105	80 - 120	504	101	4	20
7440-47-3	Chromium	2.38	1.00	500	522	104	80 - 120	502	100	4	20
7440-48-4	Cobalt	0.0	1.00	500	537	107	80 - 120	516	103	4	20
7440-50-8	Copper	17.6	1.69	500	606	118	80 - 120	584	113	4	20
7439-89-6	Iron	0.0	40.0	5000	5250	105	80 - 120	5060	101	4	20
7439-92-1	Lead	0.0	2.83	500	525	105	80 - 120	503	101	4	20
7439-95-4	Magnesium	283000	50.0	5000	321000	**769***	80 - 120	321000	**771***	0.02	20
7439-98-7	Molybdenum	13.3	3.75	500	564	110	80 - 120	542	106	4	20
7440-02-0	Nickel	0.0	0.84	500	519	104	80 - 120	500	100	4	20
7440-09-7	Potassium	18300	100	10000	30700	**125***	80 - 120	30400	**121***	1	20
7782-49-2	Selenium	22.4	3.79	500	632	**122***	80 - 120	601	116	5	20
7440-22-4	Silver	0.0	0.64	500	579	116	80 - 120	557	111	4	20
7440-28-0	Thallium	0.0	2.60	500	535	107	80 - 120	515	103	4	20
7440-62-2	Vanadium	6.46	3.75	500	560	111	80 - 120	540	107	4	20

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 15:33			10/06/2011 15:40			10/06/2011 15:45		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-66-6	Zinc	366	5.89	500	944	116	80 - 120	922	111	2	20
7440-32-6	Titanium	0.0	1.20	500	520	104	80 - 120	500	100	4	20

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 15:30			10/10/2011 15:36			10/10/2011 15:42		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	339000	50.0	5000	360000	**402***	80 - 120	363000	**461***	0.8	20
7439-96-5	Manganese	0.0	2.00	500	533	107	80 - 120	510	102	4	20

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 11:04			10/10/2011 11:11			10/10/2011 11:18		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2480000	5000	20000	2560000	**424***	80 - 120	2520000	**236***	1	20

General Chemistry Quality Control Summary

Analytical Batch 466317	**Client ID**	MB466317			LCS466317		
Prep Batch N/A	**GCAL ID**	992213			992214		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 13:00			09/30/2011 13:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 466317	**Client ID**	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	**GCAL ID**	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1790	10.0	1740	3.1	5

Analytical Batch 466317	**Client ID**	EEO-MW11-0911-GW01 (1)		EEO-QCSD-0911-GW01 DUP		
Prep Batch N/A	**GCAL ID**	21109290101		21109290105		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3840	10.0	3890	1.1	5

Analytical Batch 466415	**Client ID**	MB466415			LCS466415		
Prep Batch N/A	**GCAL ID**	992706			992707		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/03/2011 11:00			10/03/2011 11:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	970	97	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466415	**Client ID**	U43010B		992574DUP		
Prep Batch N/A	**GCAL ID**	21110010401		992708		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/03/2011 11:00		10/03/2011 11:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2490	7.00	2540	1.7	5

Analytical Batch 466542	**Client ID**	MB466542			LCS466542		
Prep Batch N/A	**GCAL ID**	993230			993231		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 14:30			10/04/2011 14:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	948	94.8	80 - 120

Analytical Batch 466542	**Client ID**	TK-470		993136DUP		
Prep Batch N/A	**GCAL ID**	21110041701		993232		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/04/2011 14:30		10/04/2011 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	176	7.00	180	2.2	5

General Chemistry Quality Control Summary

Analytical Batch 466176	**Client ID**	MB466176			LCS466176		
Prep Batch N/A	**GCAL ID**	991568			991569		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 15:54			09/28/2011 15:56		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.475	95	89.5 -110.5

Analytical Batch 466176	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 15:58			09/28/2011 15:59			09/28/2011 16:01			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.085	0.003	0.500	0.558	95	89.5 -110.5	0.560	95	0.3	25

Analytical Batch 466177	**Client ID**	MB466177			LCS466177		
Prep Batch N/A	**GCAL ID**	991574			991575		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 16:51			09/28/2011 16:52		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.522	104	89.5 -110.5

Analytical Batch 466177	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 16:54			09/28/2011 16:56			09/28/2011 16:57			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.521	104	89.5 -110.5	0.521	104	0	25

General Chemistry Quality Control Summary

Analytical Batch 466216	**Client ID**	MB466216			LCS466216		
Prep Batch N/A	**GCAL ID**	991777			991778		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 09:58			09/29/2011 09:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.487	97	89.5 -110.5

Analytical Batch 466216	**Client ID**	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	**GCAL ID**	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:40			09/29/2011 11:41			09/29/2011 11:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.011	0.003	0.500	0.475	93	89.5 -110.5	0.476	93	0.3	25

Analytical Batch 466228	**Client ID**	MB466228			LCS466228		
Prep Batch N/A	**GCAL ID**	991839			991840		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 10:25			09/29/2011 10:26		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.523	105	89.5 -110.5

Analytical Batch 466228	**Client ID**	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	**GCAL ID**	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:59			09/29/2011 12:37			09/29/2011 12:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.001	0.003	0.500	0.526	105	89.5 -110.5	0.523	104	0.7	25

General Chemistry Quality Control Summary

Analytical Batch 466357	**Client ID**	MB466357			LCS466357		
Prep Batch N/A	**GCAL ID**	992503			992504		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 18:29			09/30/2011 18:30		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003J	0.003	0.500	0.474	95	89.5 -110.5

Analytical Batch 466357	**Client ID**	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	**GCAL ID**	21109280410			992505			992506			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:32			09/30/2011 19:06			09/30/2011 19:07			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.013	0.003	0.500	0.517	101	89.5 -110.5	0.526	103	2	25

Analytical Batch 466357	**Client ID**	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	**GCAL ID**	21109301906			992507			992508			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:44			09/30/2011 19:08			09/30/2011 19:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.135	0.003	0.500	0.655	104	89.5 -110.5	0.656	104	0.2	25

Analytical Batch 466358	**Client ID**	MB466358			LCS466358		
Prep Batch N/A	**GCAL ID**	992509			992510		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 17:38			09/30/2011 17:39		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.508	102	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 466358	**Client ID**	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	**GCAL ID**	21109280410			992511			992512			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:40			09/30/2011 17:42			09/30/2011 17:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.537	107	89.5 -110.5	0.535	107	0.4	25

Analytical Batch 466358	**Client ID**	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	**GCAL ID**	21109301906			992513			992514			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:53			09/30/2011 17:54			09/30/2011 17:55			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.006	0.003	0.500	0.555	110	89.5 -110.5	0.553	109	0.5	25

Analytical Batch 466373	**Client ID**	MB466373			LCS466373		
Prep Batch N/A	**GCAL ID**	992588			992589		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 11:28			10/01/2011 10:31		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.479	96	89.5 -110.5

Analytical Batch 466373	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			992590			992591			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:32			10/01/2011 10:33			10/01/2011 10:35			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.001	0.003	0.500	0.483	96	89.5 -110.5	0.483	96	0.06	25

General Chemistry Quality Control Summary

Analytical Batch 466374	**Client ID**	MB466374			LCS466374		
Prep Batch N/A	**GCAL ID**	992592			992593		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 10:43			10/01/2011 10:44		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.517	103	89.5 -110.5

Analytical Batch 466374	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			992594			992595			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:03			10/01/2011 11:04			10/01/2011 11:06			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.511	0.005	1.00	1.52	101	89.5 -110.5	1.54	102	0.9	25

Analytical Batch 466506	**Client ID**	MB466506			LCS466506		
Prep Batch N/A	**GCAL ID**	993074			993075		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 10:44			10/04/2011 10:45		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.491	98	89.5 -110.5

Analytical Batch 466506	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch N/A	**GCAL ID**	21110010505			993076			993077			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 10:49			10/04/2011 10:50			10/04/2011 10:52			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.245	0.003	0.500	0.612	**73***	89.5 -110.5	0.615	**74***	0.6	25

General Chemistry Quality Control Summary

Analytical Batch 466508	**Client ID**	MB466508			LCS466508		
Prep Batch N/A	**GCAL ID**	993081			993082		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:30			10/04/2011 11:48		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.502	100	89.5 -110.5

Analytical Batch 466508	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch N/A	**GCAL ID**	21110010505			993083			993084			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 11:35			10/04/2011 11:36			10/04/2011 11:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.003	0.003	0.500	0.500	99	89.5 -110.5	0.501	100	0.4	25

General Chemistry Quality Control Summary

Analytical Batch 466617	**Client ID**	MB466617			LCS466617		
Prep Batch N/A	**GCAL ID**	993797			993798		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/05/2011 17:24			10/05/2011 17:41		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.46	98.3	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.84	96.8	82 - 110

Analytical Batch 466617	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/05/2011 18:34			10/05/2011 18:52			10/05/2011 19:09			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	477	10.5	1250	1690	97.3	79 - 109	1680	96.5	0.59	15
14808-79-8	Sulfate	524	39.5	2500	3070	102	82 - 110	3040	100	1.1	15

Analytical Batch 466718	**Client ID**	MB466718			LCS466718		
Prep Batch N/A	**GCAL ID**	994212			994213		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/06/2011 18:14			10/06/2011 18:32		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.027J	0.021	2.50	2.34	93.5	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.82	96.4	82 - 110

General Chemistry Quality Control Summary

Analytical Batch 466718	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 09:26			10/07/2011 09:44			10/07/2011 10:01			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	3970	42.0	5000	9040	101	79 - 109	9090	102	0.59	15

Analytical Batch 466718	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/06/2011 18:50			10/06/2011 19:07			10/06/2011 19:25			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	1630	79.0	5000	6980	107	82 - 110	7020	108	0.55	15

Analytical Batch 466718	**Client ID**	MW-3			993524MS			993524MSD			
Prep Batch N/A	**GCAL ID**	21110051403			994216			994217			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 10:36			10/07/2011 10:54			10/07/2011 11:12			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	18.9	0.395	25.0	46.2	109	82 - 110	46.3	109	0.012	15

General Chemistry Quality Control Summary

Analytical Batch 466313	**Client ID**	LCS466313			
Prep Batch N/A	**GCAL ID**	992178			
	Sample Type	LCS			
	Analytical Date	09/30/2011 07:51			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	211	106	80 - 120

Analytical Batch 466313	**Client ID**	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	**GCAL ID**	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 07:51		09/30/2011 07:51		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		152	0.34	169	11	11

Analytical Batch 466422	**Client ID**	LCS466422			
Prep Batch N/A	**GCAL ID**	992732			
	Sample Type	LCS			
	Analytical Date	10/03/2011 08:56			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	201	101	80 - 120

Analytical Batch 466422	**Client ID**	M114MW004		992585DUP		
Prep Batch N/A	**GCAL ID**	21110010501		992733		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/03/2011 08:56		10/03/2011 08:56		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		59.3	0.34	60.5	2	11

General Chemistry Quality Control Summary

Analytical Batch 466579	**Client ID**	LCS466579			
Prep Batch N/A	**GCAL ID**	993418			
	Sample Type	LCS			
	Analytical Date	10/05/2011 08:02			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 466579	**Client ID**	TK-471		993140DUP		
Prep Batch N/A	**GCAL ID**	21110041702		993419		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/05/2011 08:02		10/05/2011 08:02		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		992	0.34	994	0.2	11

Analytical Batch 466580	**Client ID**	LCS466580				LCSD466580			
Prep Batch N/A	**GCAL ID**	993420				993422			
	Sample Type	LCS				LCSD			
	Analytical Date	10/05/2011 08:30				10/05/2011 08:30			
	Matrix	Water				Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	10.0	100	80 - 120	9.9	99	1	11

General Chemistry Quality Control Summary

Analytical Batch 466146	**Client ID**	MB466146			LCS466146		
Prep Batch N/A	**GCAL ID**	991369			991370		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 10:11			09/28/2011 10:11		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	490	98	80 - 120

Analytical Batch 466146	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 10:14			09/28/2011 10:16			09/28/2011 10:16			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	3.30	500	469	94	80 - 120	471	94	0.4	20

Analytical Batch 466230	**Client ID**	MB466230			LCS466230		
Prep Batch N/A	**GCAL ID**	991844			991845		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 11:52			09/29/2011 11:53		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	500	100	80 - 120

Analytical Batch 466230	**Client ID**	MA02 MW001D			991841MS		
Prep Batch N/A	**GCAL ID**	21109280407			991847		
	Sample Type	SAMPLE			MS		
	Analytical Date	09/29/2011 11:54			09/29/2011 11:54		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.00	3.30	500	476	95	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466230	**Client ID**	MA02 MW001D		991841DUP		
Prep Batch N/A	**GCAL ID**	21109280407		991846		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/29/2011 11:54		09/29/2011 11:54		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		3.00	3.30	1.00	**100***	25

Analytical Batch 466295	**Client ID**	MB466295			LCS466295		
Prep Batch N/A	**GCAL ID**	992102			992103		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 08:47			09/30/2011 08:47		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		3.30U	3.30	500	499	100	80 - 120

Analytical Batch 466295	**Client ID**	005C			992023MS		
Prep Batch N/A	**GCAL ID**	21109293502			992105		
	Sample Type	SAMPLE			MS		
	Analytical Date	09/30/2011 08:56			09/30/2011 08:57		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		0.000	16.5	2500	2060	82	80 - 120

Analytical Batch 466295	**Client ID**	005C		992023DUP		
Prep Batch N/A	**GCAL ID**	21109293502		992104		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 08:56		09/30/2011 08:56		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	16.5	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch 466385	**Client ID**	MB466385			LCS466385		
Prep Batch N/A	**GCAL ID**	992631			992632		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 09:51			10/01/2011 09:51		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	501	100	80 - 120

Analytical Batch 466385	**Client ID**	M114MW004			992585MS		
Prep Batch N/A	**GCAL ID**	21110010501			992634		
	Sample Type	SAMPLE			MS		
	Analytical Date	10/01/2011 09:53			10/01/2011 09:54		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	3.30	500	485	97	80 - 120

Analytical Batch 466385	**Client ID**	M114MW004		992585DUP		
Prep Batch N/A	**GCAL ID**	21110010501		992633		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/01/2011 09:53		10/01/2011 09:53		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	3.30	0.000	0	25

Analytical Batch 466501	**Client ID**	MB466501			LCS466501		
Prep Batch N/A	**GCAL ID**	993061			993062		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:10			10/04/2011 11:11		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	539	108	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466501	**Client ID**	M114MW002			993041MS		
Prep Batch N/A	**GCAL ID**	21110010505			993063		
	Sample Type	SAMPLE			MS		
	Analytical Date	10/04/2011 11:11			10/04/2011 11:12		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		0.000	3.30	500	531	106	80 - 120

Analytical Batch 466501	**Client ID**	M114MW002		993041DUP		
Prep Batch N/A	**GCAL ID**	21110010505		993064		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/04/2011 11:11		10/04/2011 11:12		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	3.30	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch	466663	**Client ID**	MB466523		LCS466523		
Prep Batch	466523	**GCAL ID**	993149		993150		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCS		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:03		10/06/2011 10:04		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.020	0.0182	91.0	80 - 120

Analytical Batch	466663	**Client ID**	MB466523		LCSHI466523		
Prep Batch	466523	**GCAL ID**	993149		993151		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCSHI		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:03		10/06/2011 10:05		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.10	0.0964	96.0	80 - 120

Analytical Batch	466663	**Client ID**	M114MW004		992585MS		
Prep Batch	466523	**GCAL ID**	21110010501		993152		
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:06		10/06/2011 10:07		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0516	103	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466663	**Client ID**	M114MW001	992586DUP
Prep Batch	466523	**GCAL ID**	21110010502	993153
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	DUP
		Prep Date	10/04/2011 12:30	10/04/2011 12:30
		Analytical Date	10/06/2011 10:08	10/06/2011 10:09
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
57-12-5	Total Cyanide	0.0	0.0006	0.0000	0.0	25

Analytical Batch	466665	**Client ID**	MB466327	LCS466327
Prep Batch	466327	**GCAL ID**	992272	992273
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCS
		Prep Date	10/01/2011 07:00	10/01/2011 07:00
		Analytical Date	10/06/2011 10:22	10/06/2011 10:23
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L		**Result**		**Control**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.020	0.0183	92.0	80 - 120

Analytical Batch	466665	**Client ID**	MB466327	LCSHI466327
Prep Batch	466327	**GCAL ID**	992272	992274
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCSHI
		Prep Date	10/01/2011 07:00	10/01/2011 07:00
		Analytical Date	10/06/2011 10:22	10/06/2011 10:24
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L		**Result**		**Control**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.10	0.0969	97.0	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466665	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD			
Prep Batch	466327	**GCAL ID**	21109280402		21109280403			21109280404			
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	10/01/2011 07:00		10/01/2011 07:00			10/01/2011 07:00			
		Analytical Date	10/06/2011 10:28		10/06/2011 10:29			10/06/2011 10:30			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0499	100	80 - 120	0.0497	99.0	0.40	20

Analytical Batch	466665	**Client ID**	301-271		301-271 MS			301-271 MSD			
Prep Batch	466327	**GCAL ID**	21109292701		21109292703			21109292704			
Prep Method	SM 4500 CN E	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	10/01/2011 07:00		10/01/2011 07:00			10/01/2011 07:00			
		Analytical Date	10/06/2011 10:33		10/06/2011 10:34			10/06/2011 10:35			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0231	0.0006	0.050	0.0756	105	80 - 120	0.0759	106	0.40	20

Analytical Batch	466665	**Client ID**	MA01MW001	991354DUP		
Prep Batch	466327	**GCAL ID**	21109280401	992275		
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	DUP		
		Prep Date	10/01/2011 07:00	10/01/2011 07:00		
		Analytical Date	10/06/2011 10:26	10/06/2011 10:27		
		Matrix	Water	Water		
SW-846 9012A Cyanide		**Units**	mg/L			
		Result	**RDL**	**Result**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.0000	0.0	25

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211092804	10/5/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis + Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260 B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196 A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7955 4081 4998		9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211092804	
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis & Development Corp
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9010 SA	Remarks:	Lab ID
W	9/28/11	1028		X	MA02 MW001D		13	X	X	X	X	X	X	X	X	X	X		7
W	9/28/11	1028		X	FD-1		13	X	X	X	X	X	X	X	X	X	X		8
W	9/28/11	1028			TB-2		3	X											9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	Date: 9-29-11	Time: 915
Relinquished by: (Signature) 8735 5991 2891	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only.

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804	10/7/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (3196A)	Cl/SO4/NO3/NO2	All TDS	Cyanide (NaOH) 9014	Remarks:	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X											13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
FedEx	[signature]	9/30/11	0915
8735 5991 2880			

Note: * Hex Chrome 24 hr hold time *

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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GCAL-06 11/98

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only			
Trinity	4747	~~211100105~~	10/7/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1607 N Kalin Pkwy
Shallowater, TX 79363
Contact: J. Kramer
Phone: 806 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C: ~~1.9~~, 5.7

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (HNO3/Filtered)	Hex Chrome (Filtered)	CL/Sulf/NO3/NO2	Alk/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1030		X	M114 MW004		15	X	X	X	X	X	X	X	X	X	X		1
W	9/30/11	1236		X	M114 MW001		13	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1000			TB-5		1	X											3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	9/30/11	1500
FedEx	[signature]	10/1/11	900
8716 8 2160 4454	~~4995 7584 2414~~ CS		

Note: * 24-hour hold on [illegible]

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804 ~~211100105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Erlin Parkway
Shalimar Fl 32579
Contact: Jonathan Kramer
Phone: 850 613 ~~7680~~ 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual

Sampled By: Ben Stewart, Jonathan Kramer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X		4
W	10/3/11	0937		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X		5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X		6
W	10/3/11	0800		X	TB-6		3	X											7

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/3/11	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 8735 5991 2870	[signature]	10/4/11	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Hex Chrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2891, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870

October 17, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1110019

TEL: (225) 769-4900
FAX: (225) 767-5717

RE:

Dear Dana Merrill:

DHL Analytical received 7 sample(s) on 10/5/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1110019

Chain of Custody Record

Submitted by
Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue
Baton Rouge, LA 70820
Contact: Dana Merrill
Phone: (225)769-4900
Fax: (225)767-5717

Bill to
Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue
Baton Rouge, LA 70820
Contact: Dana Merrill
Phone: (225)769-4900
Fax: (225)767-5717

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0929
Project Name/Number: 4747
Sampled By:

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Pre-serva-tives	No. Con-tainers	PERCHLORATE (6860) -FILTERED		PERCHLORATE (6860) -UNFILTERED								Remarks:	Lab ID
01	W	9/27/2011	9:33		X	21109280401		2	X		X								MA01MW001	
02	W	9/27/2011	12:21		X	21109280402		2	X		X								MA01MW003	
	W	9/27/2011	12:21		X	21109280403		2	X		X								MA01MW003 MS	
	W	9/27/2011	12:21		X	21109280404		2	X		X								MA01MW003 MSD	
03	W	9/28/2011	10:28		X	21109280407		2	X		X								MA02MW001D	
04	W	9/28/2011	10:28		X	21109280408		2	X		X								FD-1	
05	W	9/29/2011	8:40		X	21109280410		2	X		X								MWQ-23	
06	W	9/29/2011	11:10		X	21109280411		2	X		X								MA01-MW004	
07	W	9/29/2011	13:06		X	21109280412		2	X		X								MA01-MW002	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard ___ other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/4/11	1700
[signature]	[signature]	10/5/11	1015

Note: Received temp 1.7° Therm #57 NO custody seals

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 04OCT11
ACTWGT: 48.0 LB MAN
CAD: 8640B0/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

WED - 05 OCT A1
PRIORITY OVERNIGHT

TRK# 0201 4932 5569 0759

A8 BSMA

78664
TX-US
AUS

Part # 156148-434 R072 07/11

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Work Order Number 1110019

Date Received: 10/5/2011

Received by JB

Checklist completed by: [signature] 10/5/11 (Signature / Date)

Reviewed by SS 10-5-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results (DCS results can be found with the Miscellaneous Documents) for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager
Scott Schroeder – Technical Director

John DuPont
Signature

10/17/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	10/14/2011 9:45
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/17/11

10.17.2011

Internal Standard Summary

Sequence Name:	**111014_CLO4**
Control Program:	**CIO4PGM_110726**
Quantif. Method:	**CIO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
CIO4_0.3_1	2145.881
CIO4_0.5_1	2548.699
CIO4_1.0_1	2323.890
CIO4_2.0_1	2120.738
CIO4_5.0_1	1968.739
CIO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111014	1460.205
LRB1-111014	1618.288
LCVL1-111014	1472.384
ICS1-111014	1381.102
LCS-48634	1656.983
MB-48634	1623.653
1110019-01B	1312.267
1110019-02B	2016.793
1110019-03B	1372.407
1110019-04B	1495.062
1110019-05B	1598.631
1110019-06B	1498.546
1110019-07B	1310.633
~~1110019-02BMS~~	1529.364
~~1110019-02BMSD~~	1327.776
CCV1-111014	1359.997

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10.17.2011

LRB2-111014	1805.107
LCVL2-111014	1367.813
ICV1-111017	2256.260
ICS1-111017	2282.900
LRB1-111017	2407.729
LCVL1-111017	2609.487
1110028-01B	2548.283
1110028-02B	2519.623
1110028-03B	2500.923
1110028-04B	1984.372
1110028-05B	1975.060
1110019-02BMS	2317.634
1110019-02BMSD	2179.053
CCV1-111017	2081.867
LRB2-111017	1974.628
LCVL2-111017	1861.640

10/17/11

10.17.2011

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/11/2011 9:39**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/12/11

10.17.2011

Internal Standard Summary

Sequence Name:	**111011_CLO4**
Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111011	1454.038
ICS1-111011	1482.960
LRB1-111011	1606.663
LCVL1-111011	1688.557
LCS-48633	1707.350
MB-48633	1737.273
1110019-01A	1775.291
1110019-02A	1945.275
1110019-05A	1309.091
1110019-06A	1263.488
1110019-07A	1065.323
1110019-03A	1319.574
1110019-04A	1109.599
1110019-02AMS	1366.148
1110019-02AMSD	1408.683
CCV1-111011	1283.561

10/17/11

10.17.2011

LRB2-111011	1717.386
LCVL2-111011	1065.523
1110028-01A	1640.164
1110028-02A	1201.143
1110028-03A	2112.916
1110028-04A	2016.670
1110028-05A	1993.853
CCV2-111011	1962.865
LRB3-111011	2262.211
LCVL3-111011	2124.478

10.17.2011

10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis Total and Filtered (Parameter is ELAP Accredited but not NELAC Certified)

Exception Report R1-01

The samples were received on and log-in performed on 10/5/2011. A total of 7 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Filtered Perchlorate Analysis, batch 48633, the recovery of the Matrix Spike and Matrix Spike Duplicate (1110019-02 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS is within method control limits. No further corrective action was taken.

Exception Report R10-01

For Perchlorate Analysis, the results of total perchlorate for Sample 21109280408 were less than the results of filtered perchlorate. The difference is within the acceptable variation limits.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

This sample delivery group arrived at DHL Analytical 10/5/11.

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1110019-01	21109280401		09/27/11 09:33 AM	10/05/11
1110019-02	21109280402		09/27/11 12:21 PM	10/05/11
1110019-03	21109280407		09/28/11 10:28 AM	10/05/11
1110019-04	21109280408		09/28/11 10:28 AM	10/05/11
1110019-05	21109280410		09/29/11 08:40 AM	10/05/11
1110019-06	21109280411		09/29/11 11:10 AM	10/05/11
1110019-07	21109280412		09/29/11 01:06 PM	10/05/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1110019-01A	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-01B	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-02A	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-02B	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-03A	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-03B	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-04A	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-04B	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-05A	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-05B	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-06A	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-06B	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-07A	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-07B	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1110019-01A	21109280401	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:18 AM	ICMS_111011A
1110019-01B	21109280401	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:11 PM	ICMS_111014A
1110019-02A	21109280402	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:34 AM	ICMS_111011A
1110019-02B	21109280402	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:27 PM	ICMS_111014A
1110019-03A	21109280407	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:11 PM	ICMS_111011A
1110019-03B	21109280407	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:44 PM	ICMS_111014A
1110019-04A	21109280408	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:27 PM	ICMS_111011A
1110019-04B	21109280408	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:00 PM	ICMS_111014A
1110019-05A	21109280410	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:23 PM	ICMS_111011A
1110019-05B	21109280410	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:16 PM	ICMS_111014A
1110019-06A	21109280411	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:39 PM	ICMS_111011A
1110019-06B	21109280411	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:32 PM	ICMS_111014A
1110019-07A	21109280412	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:55 PM	ICMS_111011A
1110019-07B	21109280412	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 03:28 PM	ICMS_111014A

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280401
Lab ID: 1110019-01
Collection Date: 09/27/11 09:33 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000266	0.000100	0.000300	JN	mg/L	1	10/11/11 11:18 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000357	0.000100	0.000300	N	mg/L	1	10/14/11 12:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280402
Lab ID: 1110019-02
Collection Date: 09/27/11 12:21 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000298	0.000100	0.000300	JN	mg/L	1	10/11/11 11:34 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000413	0.000100	0.000300	N	mg/L	1	10/14/11 12:27 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280407
Lab ID: 1110019-03
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0196	0.000495	0.00149	N	mg/L	1	10/11/11 01:11 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0238	0.000495	0.00149	N	mg/L	1	10/14/11 12:44 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280408
Lab ID: 1110019-04
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0231	0.000495	0.00149	N	mg/L	1	10/11/11 01:27 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0212	0.000495	0.00149	N	mg/L	1	10/14/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280410
Lab ID: 1110019-05
Collection Date: 09/29/11 08:40 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/11/11 12:23 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/14/11 01:16 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280411
Lab ID: 1110019-06
Collection Date: 09/29/11 11:10 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00353	0.000100	0.000300	N	mg/L	1	10/11/11 12:39 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00407	0.000100	0.000300	N	mg/L	1	10/14/11 01:32 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280412
Lab ID: 1110019-07
Collection Date: 09/29/11 01:06 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00149	0.000100	0.000300	N	mg/L	1	10/11/11 12:55 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00188	0.000100	0.000300	N	mg/L	1	10/14/11 03:28 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	LCS-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	LCS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 10:43 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000286	0.000300	0.000300	0	95.3	85	115			N

Sample ID:	MB-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MBLK	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 11:00 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1110019-02AMS	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 01:44 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000721	0.000300	0.000300	0.000298	141	85	115			SN

Sample ID:	1110019-02AMSD	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MSD	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 02:00 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000739	0.000300	0.000300	0.000298	147	85	115	2.48	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	ICV1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 09:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00198	0.000300	0.00200	0	98.9	85	115			N

Sample ID:	ICS1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 09:55 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000322	0.000300	0.000300	0	107	85	115			N

Sample ID:	LCVL1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 10:27 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000223	0.000300	0.000200	0	112	70	130			N

Sample ID:	CCV1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 02:16 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00548	0.000300	0.00500	0	110	85	115			N

Sample ID:	LCVL2-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 02:48 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000185	0.000300	0.000200	0	92.4	70	130			N

Sample ID:	CCV2-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 04:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00528	0.000300	0.00500	0	106	85	115			N

Sample ID:	LCVL3-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 05:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000242	0.000300	0.000200	0	121	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	**LCS-48634**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/14/11 11:39 AM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000316	0.000300	0.000300	0	105	85	115			N

Sample ID:	**MB-48634**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/14/11 11:55 AM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU

Sample ID:	**1110019-02BMS**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/17/11 12:27 PM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000720	0.000300	0.000300	0.000413	102	85	115			N

Sample ID:	**1110019-02BMSD**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/17/11 12:43 PM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000710	0.000300	0.000300	0.000413	98.9	85	115	1.40	20	N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	ICV1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 09:45 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00209	0.000300	0.00200	0	104	85	115			N

Sample ID:	LCVL1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 10:34 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000241	0.000300	0.000200	0	120	70	130			N

Sample ID:	ICS1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 10:52 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000326	0.000300	0.000300	0	109	85	115			N

Sample ID:	CCV1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 04:32 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00507	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 05:21 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000243	0.000300	0.000200	0	122	70	130			N

Sample ID:	ICV1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 09:56 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00204	0.000300	0.00200	0	102	85	115			N

Sample ID:	ICS1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 10:12 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000318	0.000300	0.000300	0	106	85	115			N

Sample ID:	LCVL1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 10:44 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000218	0.000300	0.000200	0	109	70	130			N

Sample ID:	CCV1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 12:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00514	0.000300	0.00500	0	103	85	115			N

Sample ID:	LCVL2-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 01:32 PM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000219	0.000300	0.000200	0	109	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111011A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111011	-----	SW6860	R57348	1	10/11/11 09:39 AM	
ICS1-111011	-----	SW6860	R57348	1	10/11/11 09:55 AM	
LCVL1-111011	-----	SW6860	R57348	1	10/11/11 10:27 AM	
LCS-48633	-----	SW6860	48633	1	10/11/11 10:43 AM	10/11/11
MB-48633	-----	SW6860	48633	1	10/11/11 11:00 AM	10/11/11
1110019-01A	21109280401	SW6860	48633	1	10/11/11 11:18 AM	10/11/11
1110019-02A	21109280402	SW6860	48633	1	10/11/11 11:34 AM	10/11/11
1110019-05A	21109280410	SW6860	48633	1	10/11/11 12:23 PM	10/11/11
1110019-06A	21109280411	SW6860	48633	1	10/11/11 12:39 PM	10/11/11
1110019-07A	21109280412	SW6860	48633	1	10/11/11 12:55 PM	10/11/11
1110019-03A	21109280407	SW6860	48633	1	10/11/11 01:11 PM	10/11/11
1110019-04A	21109280408	SW6860	48633	1	10/11/11 01:27 PM	10/11/11
1110019-02AMS	21109280402MS	SW6860	48633	1	10/11/11 01:44 PM	10/11/11
1110019-02AMSD	21109280402MSD	SW6860	48633	1	10/11/11 02:00 PM	10/11/11
CCV1-111011	-----	SW6860	R57348	1	10/11/11 02:16 PM	
LCVL2-111011	-----	SW6860	R57348	1	10/11/11 02:48 PM	
CCV2-111011	-----	SW6860	R57348	1	10/11/11 04:31 PM	
LCVL3-111011	-----	SW6860	R57348	1	10/11/11 05:04 PM	

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111014A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111014	-----	SW6860	R57349	1	10/14/11 09:45 AM	
LCVL1-111014	-----	SW6860	R57349	1	10/14/11 10:34 AM	
ICS1-111014	-----	SW6860	R57349	1	10/14/11 10:52 AM	
LCS-48634	-----	SW6860	48634	1	10/14/11 11:39 AM	10/11/11
MB-48634	-----	SW6860	48634	1	10/14/11 11:55 AM	10/11/11
1110019-01B	21109280401	SW6860	48634	1	10/14/11 12:11 PM	10/11/11
1110019-02B	21109280402	SW6860	48634	1	10/14/11 12:27 PM	10/11/11
1110019-03B	21109280407	SW6860	48634	1	10/14/11 12:44 PM	10/11/11
1110019-04B	21109280408	SW6860	48634	1	10/14/11 01:00 PM	10/11/11
1110019-05B	21109280410	SW6860	48634	1	10/14/11 01:16 PM	10/11/11
1110019-06B	21109280411	SW6860	48634	1	10/14/11 01:32 PM	10/11/11
1110019-07B	21109280412	SW6860	48634	1	10/14/11 03:28 PM	10/11/11
CCV1-111014	-----	SW6860	R57349	1	10/14/11 04:32 PM	
LCVL2-111014	-----	SW6860	R57349	1	10/14/11 05:21 PM	
ICV1-111017	-----	SW6860	R57349	1	10/17/11 09:56 AM	
ICS1-111017	-----	SW6860	R57349	1	10/17/11 10:12 AM	
LCVL1-111017	-----	SW6860	R57349	1	10/17/11 10:44 AM	
1110019-02BMS	21109280402MS	SW6860	48634	1	10/17/11 12:27 PM	10/11/11
1110019-02BMSD	21109280402MSD	SW6860	48634	1	10/17/11 12:43 PM	10/11/11
CCV1-111017	-----	SW6860	R57349	1	10/17/11 12:59 PM	
LCVL2-111017	-----	SW6860	R57349	1	10/17/11 01:32 PM	

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82298

Sampling Date: 05/11/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82298

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F82298-1	05/11/11	11:01 BS	05/12/11	AQ	Ground Water	MWQ 22
F82298-1F	05/11/11	11:01 BS	05/12/11	AQ	Groundwater Filtered	MWQ 22

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job** F82298

Site: Melrose Air Force Range, NM **Report Date:** 5/31/2011 8:13:13 AM

1 Sample was collected on 05/11/2011 and was received at Accutest SE on 05/12/2011 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of F82298. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP20592

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82099-1MS, F82099-1MSD, F82099-1PS, F82099-1SDL, F82099-1DUP were used as the QC samples for metals.

Matrix Spike Recoverys for Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix

Matrix Spike Recovery for Calcium is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPDs for Duplicate for Antimony, Cobalt, Copper, Lead, Selenium, Thallium, Vanadium are outside control limits for sample MP20592-D1. RPD acceptable due to low duplicate and sample concentrations.

RPDs for Serial Dilution for Aluminum, Cobalt, Selenium, Thallium, Vanadium, Zinc, Manganese are outside control limits for sample MP20592-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP20592-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20592-SD1 for Manganese: Serial dilution indicates possible matrix interference.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP20614

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82144-15MS, F82144-15MSD, F82144-15SDL, F82144-15DUP were used as the QC samples for metals.

RPD for Duplicate for Mercury is outside control limits for sample MP20614-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD for Serial Dilution for Mercury is outside control limits for sample MP20614-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP16981

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82290-1DUP, F82290-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

Matrix Spike Recoverys for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate are outside control limits. Probable cause due to matrix interference.

Tuesday, May 31, 2011

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17002

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82309-2MS, F82309-2MSD, F82309-2DUP were used as the QC samples for Cyanide, Total.

RPD for Duplicate for Cyanide, Total is outside control limits for sample GP17002-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN44611

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82311-13DUP, F82311-13MS, F82311-13MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN44520

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Solids, Total Dissolved is outside control limits for sample GN44520-D1. High RPD due to possible sample nonhomogeneity.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN44502

All method blanks for this batch meet method specific criteria.

Samples F82298-1DUP, F82298-1MS were used as the QC samples for Chromium, Hexavalent.

The following samples were run outside of holding time for method SW846 7196A: F82298-1. Sample received at the end of hold time and analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 31, 2011

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, May 31, 2011

Summary of Hits

Job Number: F82298
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 05/11/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F82298-1	**MWQ 22**					
Calcium		35300	1000		ug/l	SW846 6010C
Magnesium		14800	5000		ug/l	SW846 6010C
Manganese		402	15		ug/l	SW846 6010C
Sodium		320000	50000		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		150	5.0		mg/l	SM19 2320B
Chloride		317	10		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		1.8	0.50		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		1020	100		mg/l	SM19 2540C
Sulfate		228	10		mg/l	EPA 300/SW846 9056A
F82298-1F	**MWQ 22**					
Calcium		34400	1000		ug/l	SW846 6010C
Magnesium		14500	5000		ug/l	SW846 6010C
Manganese		398	15		ug/l	SW846 6010C
Sodium		308000	50000		ug/l	SW846 6010C

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1	**Date Sampled:**	05/11/11
Matrix:	AQ - Ground Water	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	35300	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14800	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	402	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	320000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1	**Date Sampled:**	05/11/11
Matrix:	AQ - Ground Water	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	150	5.0	mg/l	1	05/20/11	LE	SM19 2320B
Chloride	317	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0030 U	0.010	mg/l	1	05/12/11 14:15	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/18/11 15:01	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	1.8	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.50	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	1020	100	mg/l	1	05/13/11 13:00	CP	SM19 2540C
Sulfate	228	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1F	**Date Sampled:**	05/11/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	34400	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14500	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	398	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	308000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # F82298 PAGE 1 OF 1
Accutest Quote #
SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: jkramer@trinitadc
Phone#: 850 243 0072
Sampler(s) Name(s) (Printed):

Project Information

Project Name:
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Dissolved Metals	Total Metals	Cyanide	Perchlorate	CrVI	AlkT/TS	Cl/SO4/NO3/NO2					LAB USE ONLY
1	MWQ 22	5/11/11	1701	BS	GW	6				X	X				X	X	X	X	X	X	X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 R. Sheard	5/11/11 1500	2	3	05-12-11 1000	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1

5

F82298: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82298 CLIENT: Trinity ADC PROJECT: ?

DATE/TIME RECEIVED: 05.12.11 10:00 (MM/DD/YY 24:00) NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 6022 2462

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE ET 05.12.11 REVIEWER SIGNATURE/DATE [signature] 05/12/11

NF 12/10 receipt confirmation 122910.xls

5.1 5

F82298: Chain of Custody
Page 2 of 3

Job Change Order: F82298_5/13/2011

Requested Date:	5/13/2011	**Received Date:**	5/12/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/26/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82298-all

Change: Project is Melrose in NM. Metals are MTAL, Where COC says TS= TDS, all per Jonathan K. at Trinity via phone.

Above Changes Jonathan K. at Trinity **Date:** 5/13/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82298: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82120

Sampling Date: 05/05/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F82120-1	05/05/11	12:23	BS	05/06/11	AQ	Ground Water	MA02MW001D
F82120-1F	05/05/11	12:23	BS	05/06/11	AQ	Groundwater Filtered	MA02MW001D
F82120-2	05/05/11	00:00	BS	05/06/11	AQ	Trip Blank Water	TB3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job No:** F82120

Site: Melrose Air Force Range, NM **Report Date** 5/26/2011 11:12:22

1 Sample, 1 Trip Blank were collected on 05/05/2011 and received at Accutest on 05/06/2011 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F82120. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3129

Sample(s) F82144-15MS, F82144-15MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F82120-1: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F82120-2: Sample vial(s) contained significant headspace; reported results are considered minimum values.

Extractables by GC By Method SW846 8330A

Matrix: AQ **Batch ID:** OP37125

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82243-1MS, F82243-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP20570

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82095-5MS, F82095-5MSD, F82095-5PS, F82095-5SDL, F82095-5DUP were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium, Magnesium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Antimony, Cadmium, Cobalt, Nickel, Selenium are outside control limits for sample MP20570-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Barium, Cadmium, Chromium, Cobalt, Copper, Selenium, Zinc are outside control limits for sample MP20570-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP20570-SD1 for Zinc: Serial dilution indicates possible matrix interference.

MP20570-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20570-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20570-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP20603

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82095-5DUP, F82095-5MS, F82095-5MSD, F82095-5SDL, F82097-9SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP16948

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82106-1DUP, F82106-1MS were used as the QC samples for Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

Matrix Spike Recovery(s) for Chloride, Nitrogen, Nitrate, Sulfate are outside control limits. Probable cause due to matrix interference.

F82120-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP16970

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82120-1MS, F82120-1DUP were used as the QC samples for Cyanide, Total.

RPD(s) for Duplicate for Cyanide, Total are outside control limits for sample GP16970-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN44543

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82161-1DUP, F82161-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN44442

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82134-2DUP were used as the QC samples for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN44442-D1. High RPD due to possible sample nonhomogeneity.

Wet Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN44401

All method blanks for this batch meet method specific criteria.

Sample(s) F82120-1DUP, F82120-1MS were used as the QC samples for Chromium, Hexavalent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: May 26, 2011

Svetlana Izosimova, QA Officer (signature on file)

Manual Integration Summary

2

Lab Sample ID	Analysis Type	File ID	Manual Integrations
GBB583-CC583	GCSEMI	BB027931.D	1,3,5-Trinitrobenzene, 2,6-Dinitrotoluene, DNX, m-Nitrotoluene, MNX, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, TNX
GBB583-IC583	GCSEMI	BB027923.D	1,3,5-Trinitrobenzene, DNX, HMX, m-Nitrotoluene, MNX, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl, TNX
GBB583-IC583	GCSEMI	BB027924.D	DNX, MNX, PETN, RDX
GBB583-IC583	GCSEMI	BB027925.D	MNX, PETN, RDX
GBB583-IC583	GCSEMI	BB027926.D	PETN
GBB583-IC583	GCSEMI	BB027927.D	PETN
GBB583-IC583	GCSEMI	BB027929.D	PETN
GBB583-ICC583	GCSEMI	BB027928.D	PETN
GBB583-ICV583	GCSEMI	BB027932.D	MNX
GBB584-CC583	GCSEMI	BB027934.D	PETN
GBB584-CC583	GCSEMI	BB027945.D	PETN
GBB584-ECC583	GCSEMI	BB027975.D	PETN
GBB585-CC583	GCSEMI	BB027977.D	PETN
GBB585-ECC583	GCSEMI	BB028000.D	PETN
GBB586-ECC583	GCSEMI	BB028023.D	PETN
GBB587-CC583	GCSEMI	BB028039.D	PETN
GBB587-CC583	GCSEMI	BB028051.D	PETN
GBB587-CC583	GCSEMI	BB028061.D	PETN
GBB587-CC583	GCSEMI	BB028068.D	PETN
GBB587-CC583	GCSEMI	BB028078.D	PETN
GBB587-CC583	GCSEMI	BB028089.D	2,6-Dinitrotoluene, 3,4-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, PETN
GBB587-ECC583	GCSEMI	BB028099.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, m-Nitrotoluene, Nitroglycerine, o-Nitrotoluene,
GBB588-CC583	GCSEMI	BB028106.D	PETN
GBB588-ECC583	GCSEMI	BB028117.D	PETN
GBB589-CC583	GCSEMI	BB028120.D	PETN
GBB589-CC583	GCSEMI	BB028131.D	PETN
GBB589-CC583	GCSEMI	BB028143.D	PETN
GBB589-CC583	GCSEMI	BB028153.D	PETN
GBB589-ECC583	GCSEMI	BB028161.D	PETN
GBB590-CC583	GCSEMI	BB028164.D	PETN
GBB590-CC583	GCSEMI	BB028174.D	PETN
GBB590-CC583	GCSEMI	BB028186.D	PETN
GBB590-ECC583	GCSEMI	BB028198.D	PETN
OP37125-MS	GCSEMI	BB027982.D	HMX, RDX
OP37125-MSD	GCSEMI	BB027983.D	HMX
VC3128-IC3128	MSVOA	C078611.D	p-Dichlorobenzene, Trichlorofluoromethane
VC3128-ICV3128	MSVOA	C078617.D	Dichlorodifluoromethane

37 Manual Integrations were found for F82120

Summary of Hits

Job Number: F82120
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 05/05/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F82120-1	**MA02MW001D**					
Toluene [a]		16.0	1.0	0.20	ug/l	SW846 8260B
Calcium		129000	1000		ug/l	SW846 6010C
Copper		211	25		ug/l	SW846 6010C
Magnesium		73400	5000		ug/l	SW846 6010C
Manganese		245	15		ug/l	SW846 6010C
Selenium		102	10		ug/l	SW846 6010C
Sodium		2170000	400000		ug/l	SW846 6010C
Zinc		121	20		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		133	5.0		mg/l	SM19 2320B
Chloride		2010	100		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		11.0	5.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		501	100		mg/l	SM19 2540C
Sulfate		2020	100		mg/l	EPA 300/SW846 9056A
F82120-1F	**MA02MW001D**					
Calcium		124000	1000		ug/l	SW846 6010C
Copper		101	25		ug/l	SW846 6010C
Magnesium		72200	5000		ug/l	SW846 6010C
Manganese		204	15		ug/l	SW846 6010C
Selenium		108	10		ug/l	SW846 6010C
Sodium		1990000	400000		ug/l	SW846 6010C
Zinc		115	20		ug/l	SW846 6010C
F82120-2	**TB3**					

No hits reported in this sample.

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078646.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	16.0	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB027980.D	1	05/12/11	SL	05/12/11	OP37125	GBB585
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.084	ug/l	
121-82-4	RDX	ND	0.21	0.084	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.084	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.086	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.088	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.084	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.084	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.084	ug/l	
479-45-8	Tetryl	ND	0.21	0.084	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.084	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.084	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	129000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	211	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	73400	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	245	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	102	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	2170000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	121	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	133	5.0	mg/l	1	05/17/11	LE	SM19 2320B
Chloride	2010	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	05/06/11 13:30	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/11/11 14:35	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	11.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite [a]	< 5.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	501	100	mg/l	1	05/10/11 15:50	CP	SM19 2540C
Sulfate	2020	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1F	**Date Sampled:**	05/05/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	124000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	101	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	72200	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	204	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	108	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1990000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	115	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078647.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F82120 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkw Suite A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: Jkramer@trinity-adc
Phone#: 850-243-0072
Sampler(s) Name(s) (Printed): B. Stewart S. Kramer

Project Information

Project Name:
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Total Metals	Dissolved Metals	Cr VI	Cyanide	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC	Explosives			
1	MA02MW001D	5/5/11	1203	BS	GW	11				X	X					X	X	X	X	X	X	X	X	X			
2	TB3	5/5/11	9:26			3																					

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	5/5/11 1500	2 FX	3 FX	5-6-11	4 [illegible] 05/12/09:30
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

5.1

5

F82120: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82120 CLIENT: TRINITY ADC PROJECT: ?

DATE/TIME RECEIVED: 5-6-11 09:20 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 0122 2478

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: NO PROJECT NAME OR COC

TECHNICIAN SIGNATURE/DATE VC 5-6-11 REVIEWER SIGNATURE/DATE [signature] 05/06/11

NF 12/10 receipt confirmation 122910.xls

5.1 5

F82120: Chain of Custody
Page 2 of 3

Job Change Order: F82120_5/9/2011

Requested Date:	5/9/2011	**Received Date:**	5/6/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/20/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82120-1

MA02MW001D

Change: Per quote this is to be logged in for MTAL, where COC says Total Metals. V8260TCL, where COC says VOC, 8330A, where COC says Explosives. TDS where COC says TS.

Above Changes Quote **Date:** 5/9/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82120: Chain of Custody
Page 3 of 3

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113713**
Project ID: F82120X
Purchase Order: NA

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MAO2MW001D	1113713001	05/05/11	05/17/11	

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113713

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011
Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MAO2MW001D**	Sampling Site: NA	Collected: 05/05/2011
Lab ID: 1113713001	Media: 125 mL Plastic Wide Mouth	Received: 05/17/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/18/2011 18:51	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	**20**	0.20	2.0	1	

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	Peer Review

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at http://health.utah.gov/lab/labimp/labcert/envlabcert.html. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

CCV: 219404 Analyzed: 05/18/2011 16:04 Units: ug/L Criteria: ± 15%				CCV: 219411 Analyzed: 05/18/2011 19:12 Units: ug/L Criteria: ± 15%			CCV: 219544 Analyzed: 05/19/2011 10:27 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

CCV: 219545 Analyzed: 05/19/2011 11:51 Units: ug/L Criteria: ± 15%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

ICS: 219406 Analyzed: 05/18/2011 16:46 Units: ug/L Criteria: ± 30%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

LODV: 219405 Analyzed: 05/18/2011 16:25 Units: ug/L Criteria: ± 30%				LODV: 219412 Analyzed: 05/18/2011 19:33 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	0.159	0.1	*159	0.237	0.1	*237

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

4810/#14 1113713

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F82120X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	PERCHLORATE 6850	LAB USE ONLY
1	MA02MW001D	05/05/11	12:23		GW	1		X								X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other

Approved By: / Date/Rush Code:

DUE: 5/20/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

X FULL EXPANDED DATA PACKAGE AND RAW DATA

Comments / Remarks

Ship to Laboratory - ALS

Approved by -

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Arthur ALSE	5/6/11 1700	2 FED EX	3 FED EX		4 ALS 5-12-11 1010
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: ____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task:	Split:	Workorder ID: 1113713	Requested Analysis
Client: Accutest Laboratories		Account: 8001	Type: 125PWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	EPA 6850
1	05/05/2011 12:23	MAO2MW001D	1113713001		Water	A	1	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Moon, Boone C.	05/17/2011 10:10	ALS Sample Receiving	Sample Login
[illegible]	5-17-11 1121	R-33-1 JB	Storage
R-33-1	5-18-11/1300	Tom Beach	CLP analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20--03

2011-05-17--02

ALS LABORATORY GROUP SALT LAKE CITY CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Accutest

Project/Task/Site: 1113713

Date/Time of Receipt: 05·17·11 1010

Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA	Location Temp Taken:	Control/Between Samples
	Intact/Broken/NA	Are all temperatures within	
Tamper Evident:	Yes/No/NA	project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA	Are all applicable pHs within	
	Frozen/Melted/NA	specific guidelines?	Yes/No/NA

PH Check:							
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7771	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) Boone Ulcen (Printed Name) 5·17·11 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Faxed to Client? YES ☐ No ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name) Returned to Sample Receipt by: _____ (Signature) Date: _____

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: ELMS/ 1182
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850..3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850...3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850..3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	8/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence: \\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:

Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation.
Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description: 6850 Working Standard

Standard:	10684	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT					Description - 6850 Intermediate Stock
Standard:	10683	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O				Description	ASTM Type II Water
Standard:	109	Expires:	11/7/2015	Usable:	Yes
Lab Lot:	LAB 109	Created By:	ALS Support (Lims)	Amount:	100 L
Part ID:		Create Date:	10/6/2005	Validated By:	
MFG:	DCL In House	MFG Lot:		Validated Date:	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK					Description - 6850 Stock Standard
Standard:	7186	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 STOCK	Created By:	T. Bosch	Amount:	250 mL
Part ID:	IC-PER-10X-1	Create Date:	2/8/2010	Validated By:	
MFG:	AccuStandard	MFG Lot:	209115027	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK				Description	6850 QC Working Standard
Standard:	10687	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK				Description - 6850 QC Stock Standard	
Standard:	10685	Expires:	5/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC STOCK	Created By:	T. Bosch	Amount:	100 mL
Part ID:	ICC-013	Create Date:	2/10/2011	Validated By:	
MFG:	Ultra Scientific	MFG Lot:	L00429	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT				Description: 6850 QC Intermediate Standard	
Standard:	10686	Expires:	05/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

A2LA ACCREDITED

ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK			Description: Perchlorate ISTD Wrk
Standard: 10682	Expires: 02/10/2012	Usable:	Yes
Lab Lot: CLO4ISTDWRK	Created By: T. Bosch	Amount:	100 mL
Part ID:	Create Date: 02/10/2011	Validated By:	T. Bosch
MFG: ALS/SLC	MFG Lot:	Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description	Perchlorate ISTD Stock
Standard:	3915	Expires:	9/28/2017	Usable:	Yes
Lab Lot:	CLO4ISTDSTK	Created By:	T. McKay	Amount:	1 mL
Part ID:	OLM-7310-1.2	Create Date:	2/5/2009	Validated By:	T. Bosch
MFG:	Cambridge Isotope	MFG Lot:	SCHI-001	Validated Date:	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: (Isotopic Label & Enrichment Specification) PERCHLORIC ACID, SODIUM SALT (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

§ 3915

Product Information

Chemical Purity Specification:	≥98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 µg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 µg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547	24.49335
*	219405 LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549	1.59442e-1
*	219406 ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539	8.46863e-1
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
*	219408 LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685	4.50823
*	1113618001	Vial 6	1	18MAY006.D	2.17021e4	11.241	2.02186
*	219409 136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297 NR	7.52730
*	219410 136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287	6.55172
*	1113713001	Vial 9	1	18MAY009.D	3.58555e5	10.925	19.57302
*	219411 CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686	25.16005
*	219412 LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704	2.36525e-1

NR. Not Reported

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.80039
*	219405 LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-1
*	219406 ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-1
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
*	219408 LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.87492
*	1113618001	Vial 6	1	18MAY006.D	4403.96973	11.262	1.29501
*	219409 136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.78414
*	219410 136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.02725
*	1113713001	Vial 9	1	18MAY009.D	1.18943e5	10.937	21.32566
*	219411 CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.32232
*	219412 LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-1

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.00000
*	219405 LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.00000
*	219406 ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.00000
*	219407 LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.00000
*	219408 LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.00000
*	1113618001	Vial 6	1	18MAY006.D	4.19646e4	11.286	5.00000
*	219409 136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.00000
*	219410 136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.00000
*	1113713001	Vial 9	1	18MAY009.D	6.75993e4	10.934	5.00000
*	219411 CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.00000
*	219412 LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.00000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

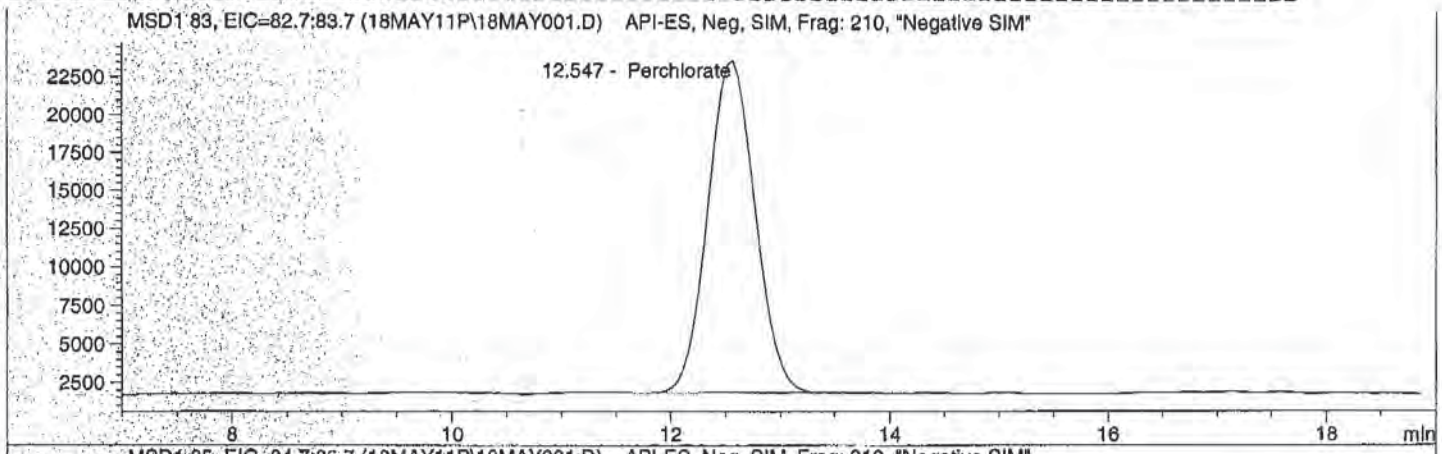
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

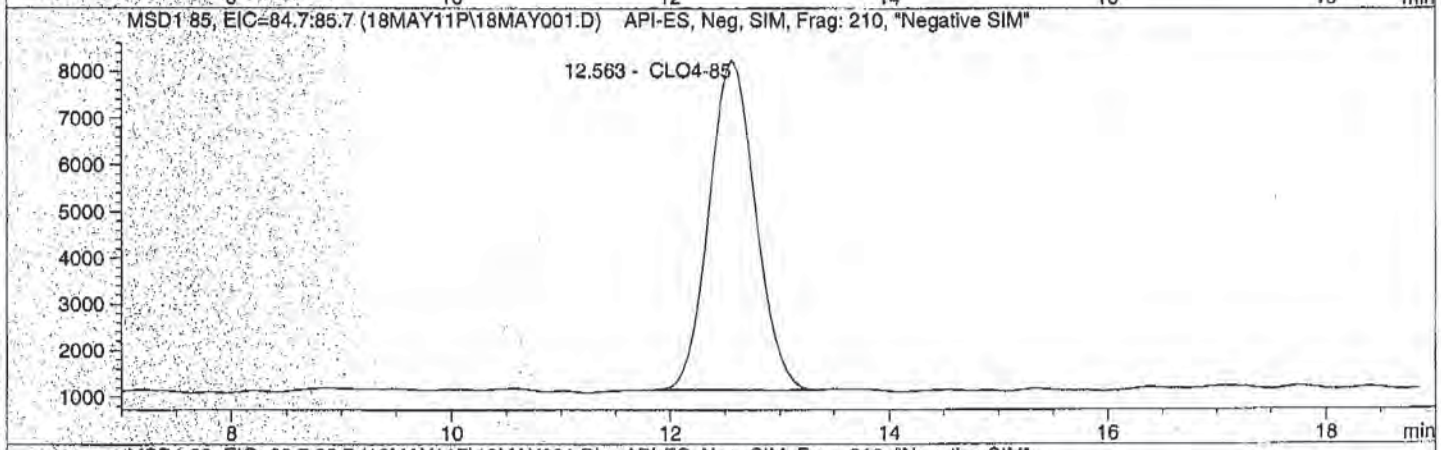
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

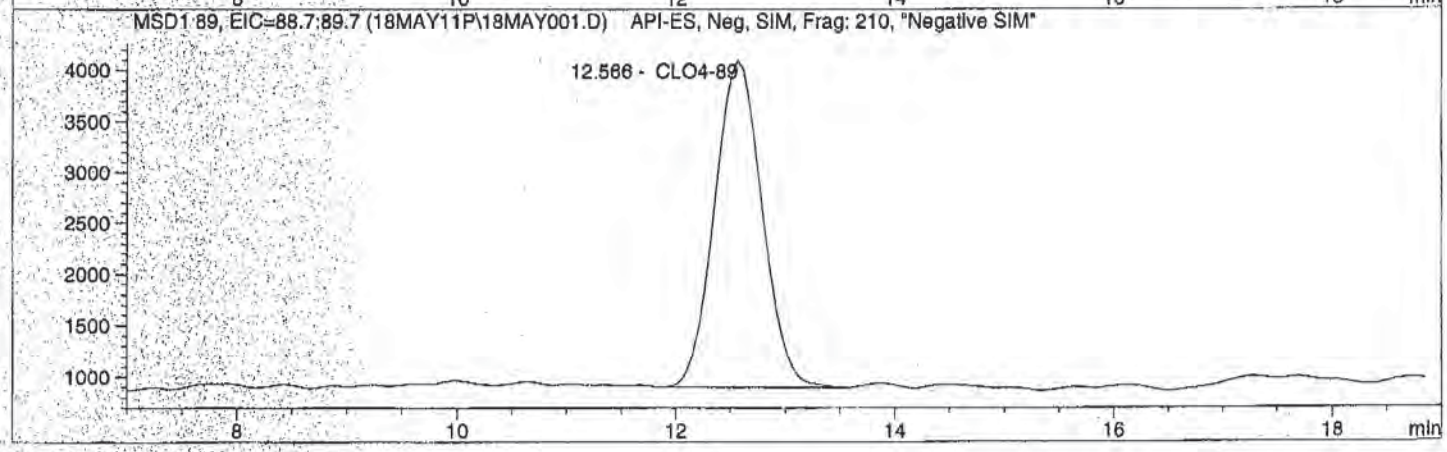
Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

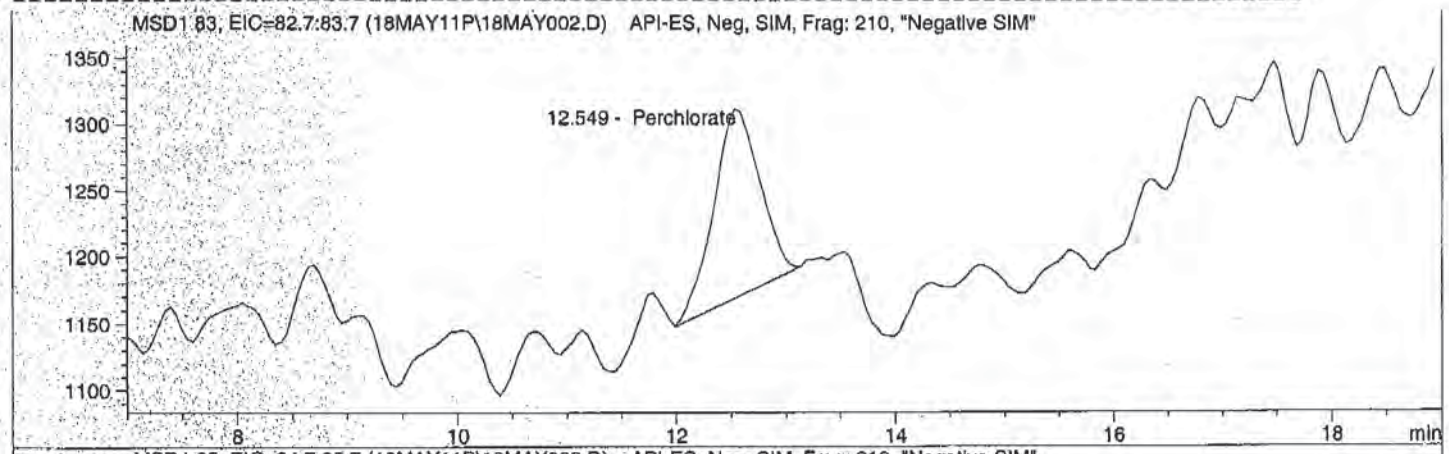
*** End of Report ***

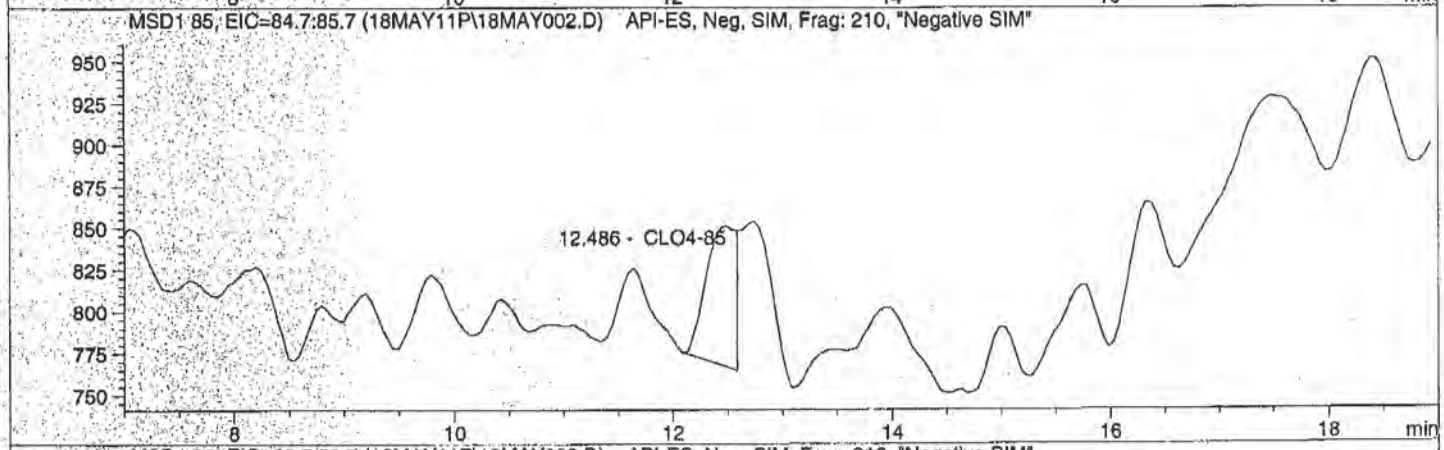
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

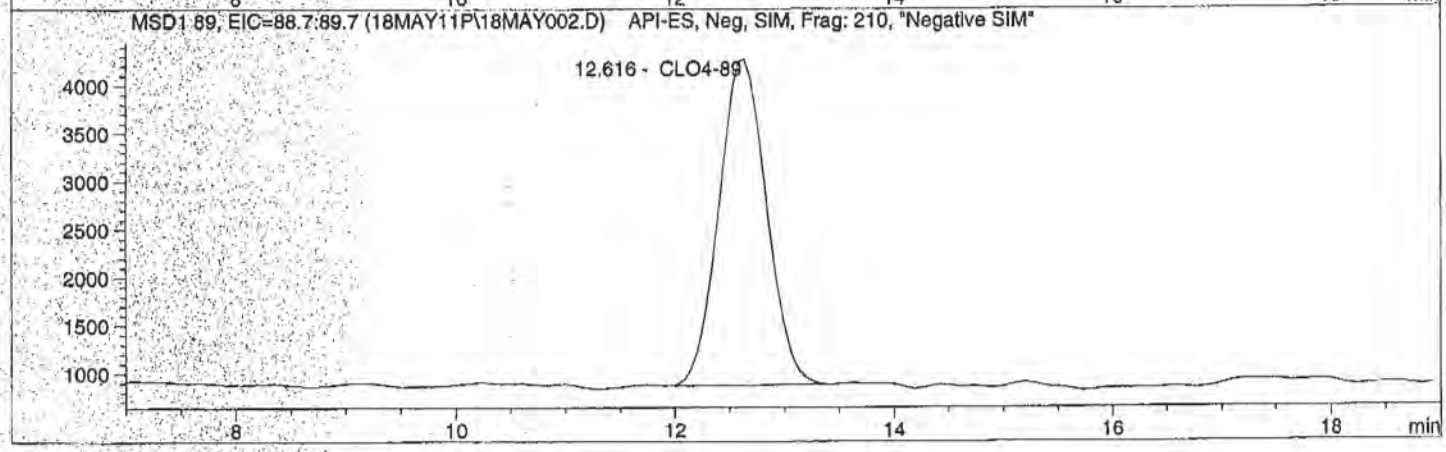
Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

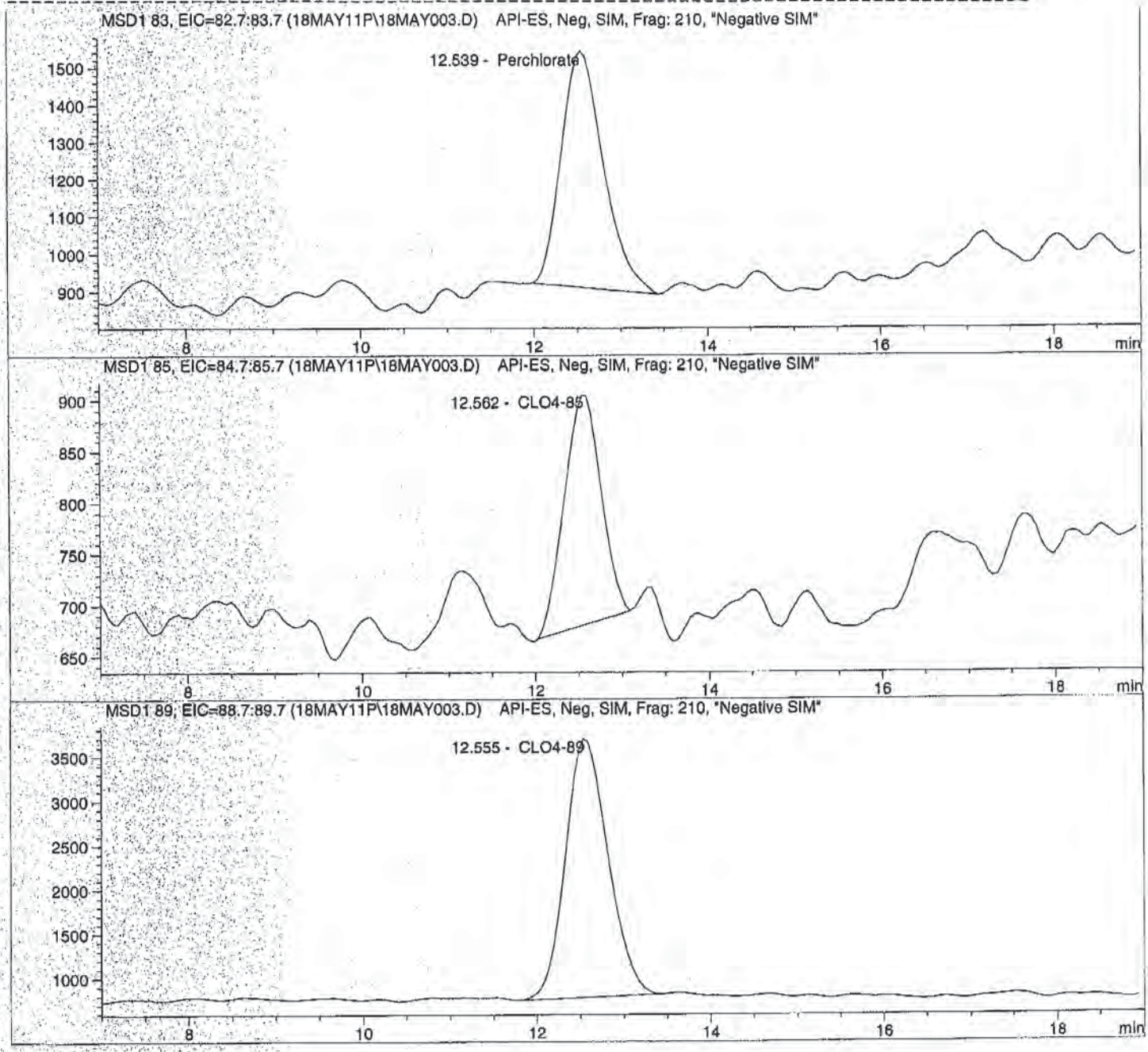
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

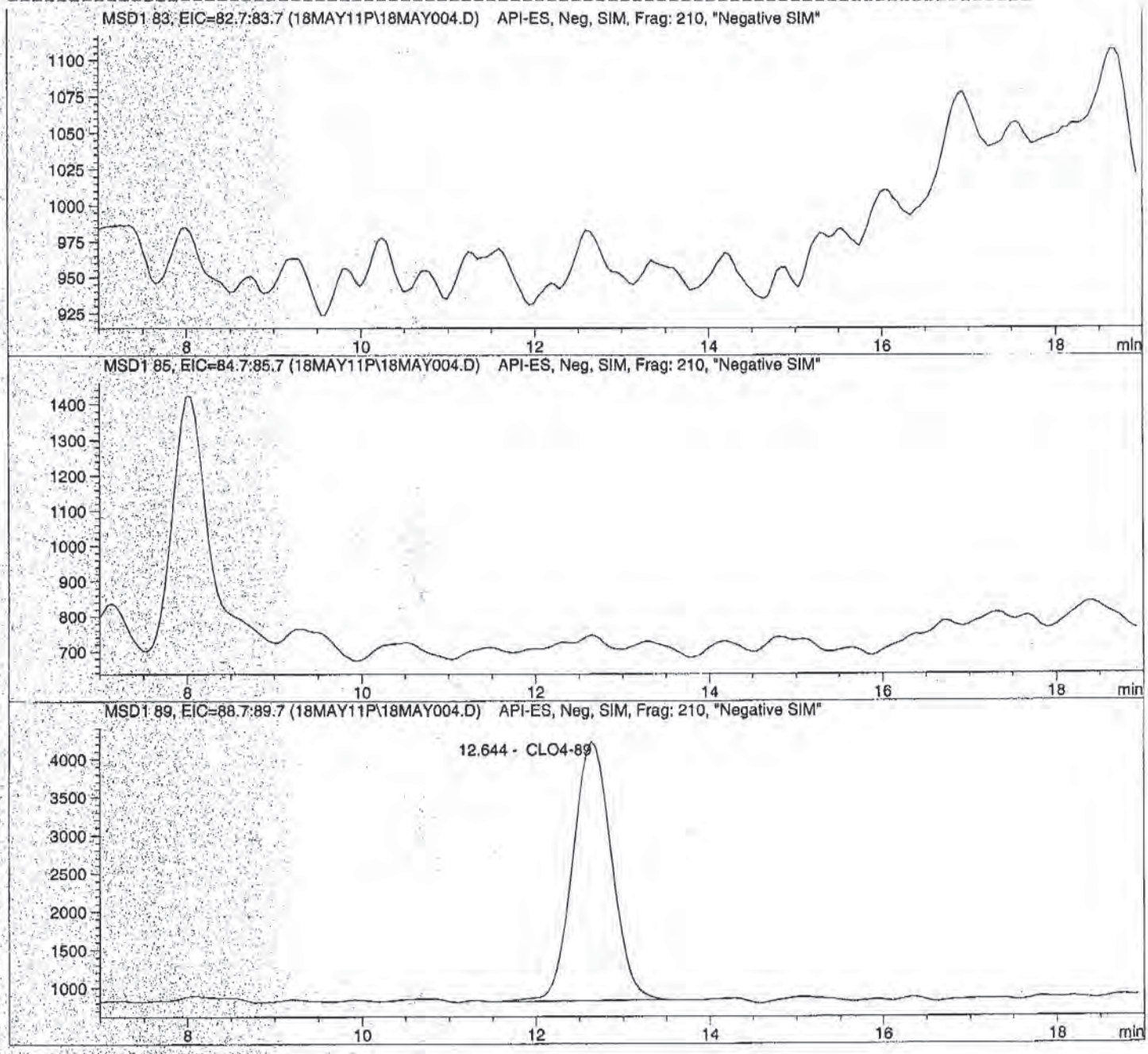
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

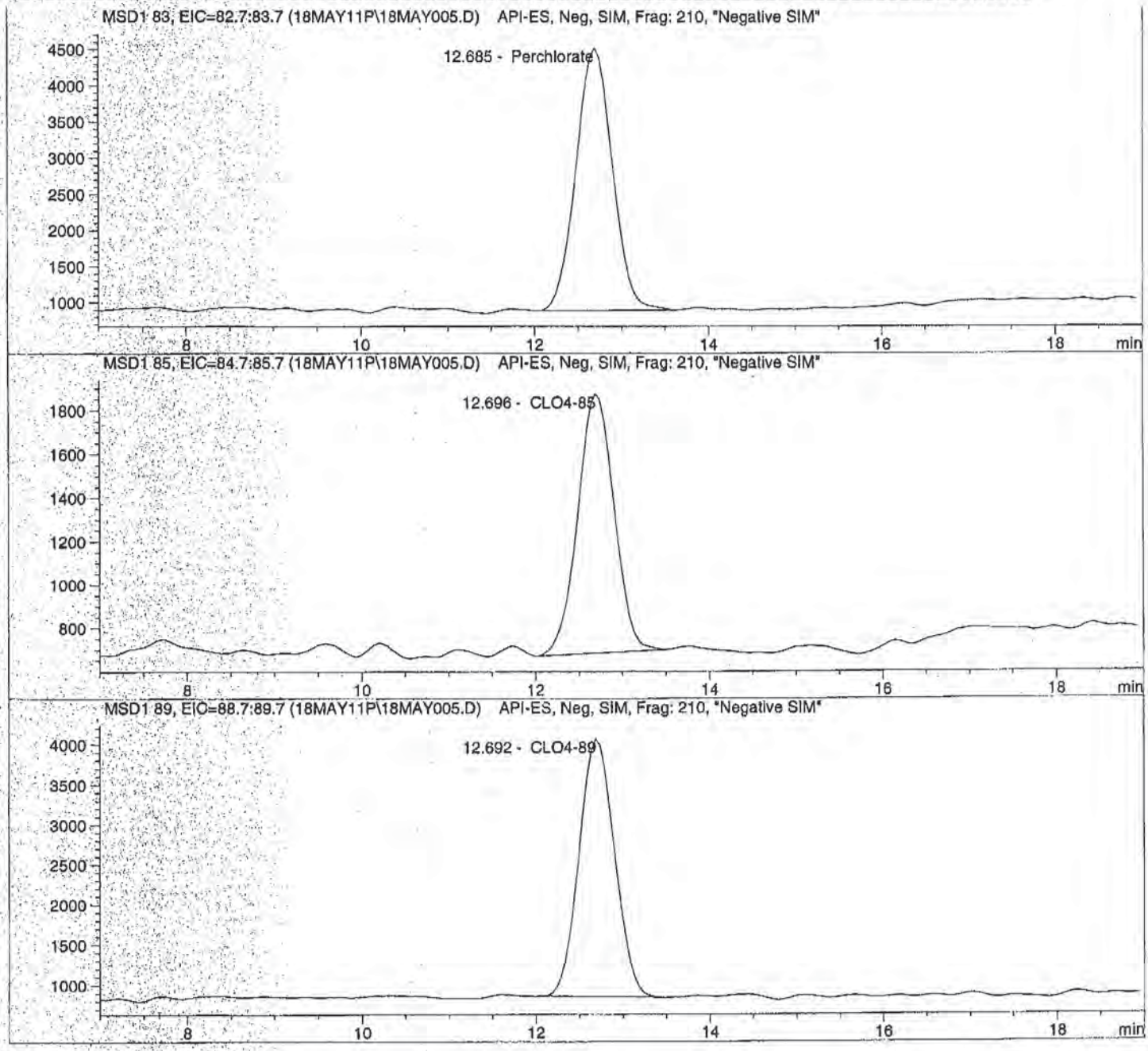
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

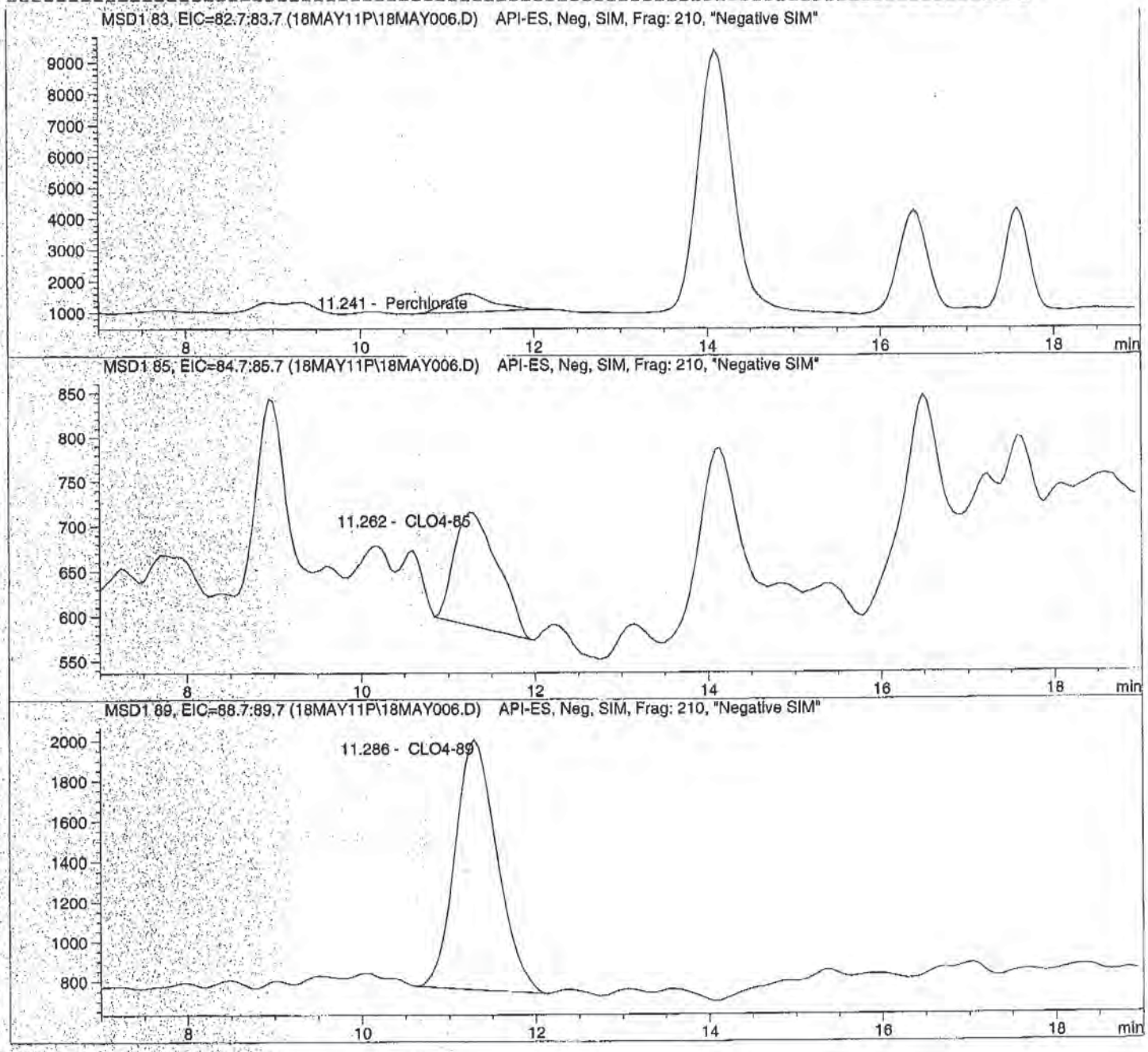
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.241	MM	21702.1	2.0219	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.262	VB	4404.0	1.2950	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.286	PBA	41964.6	5.0000	CLO4-89

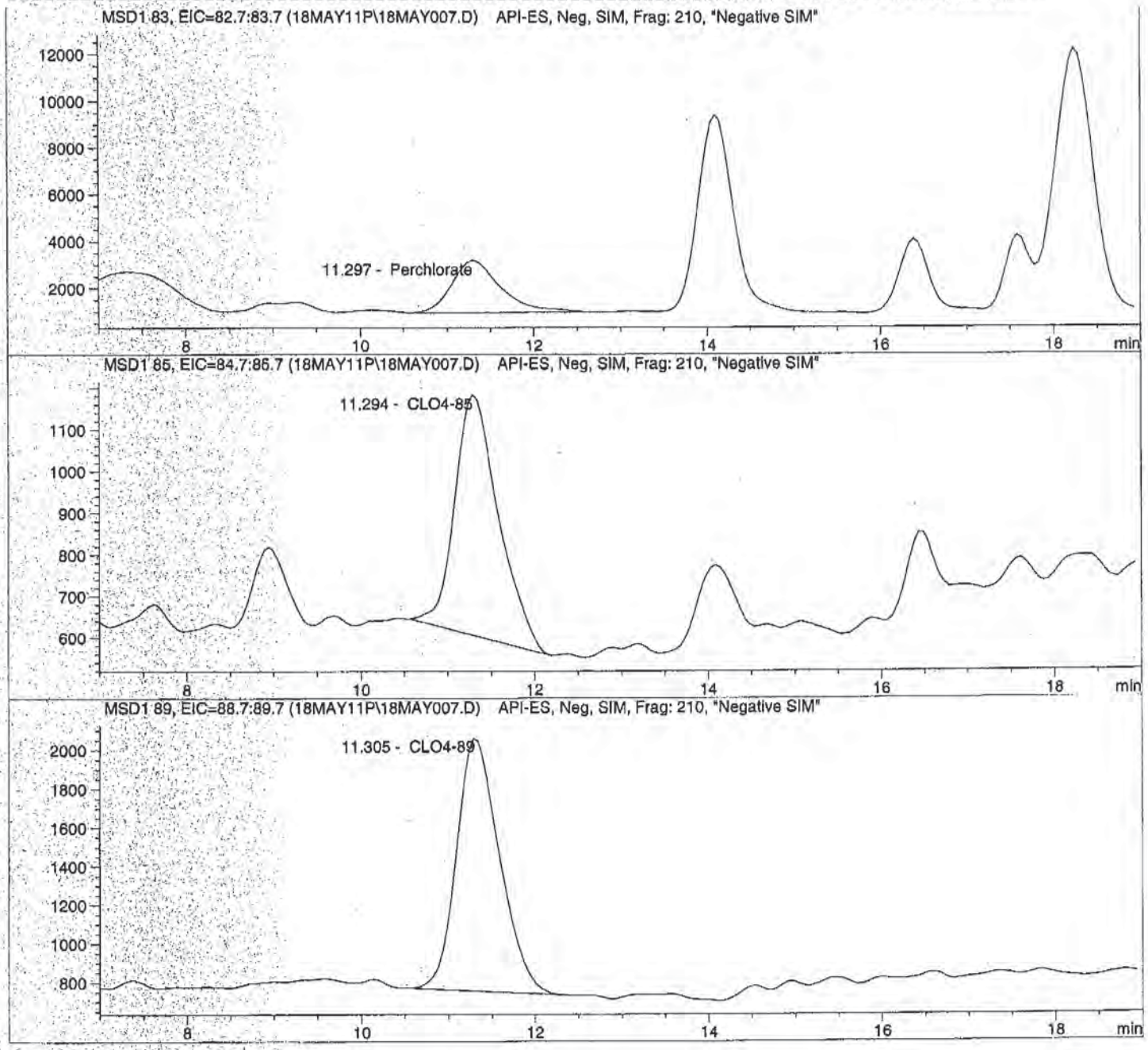
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.297	VBA	88103.8	7.5273	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.294	MM	20317.3	5.7841	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	MM	44922.2	5.0000	CLO4-89

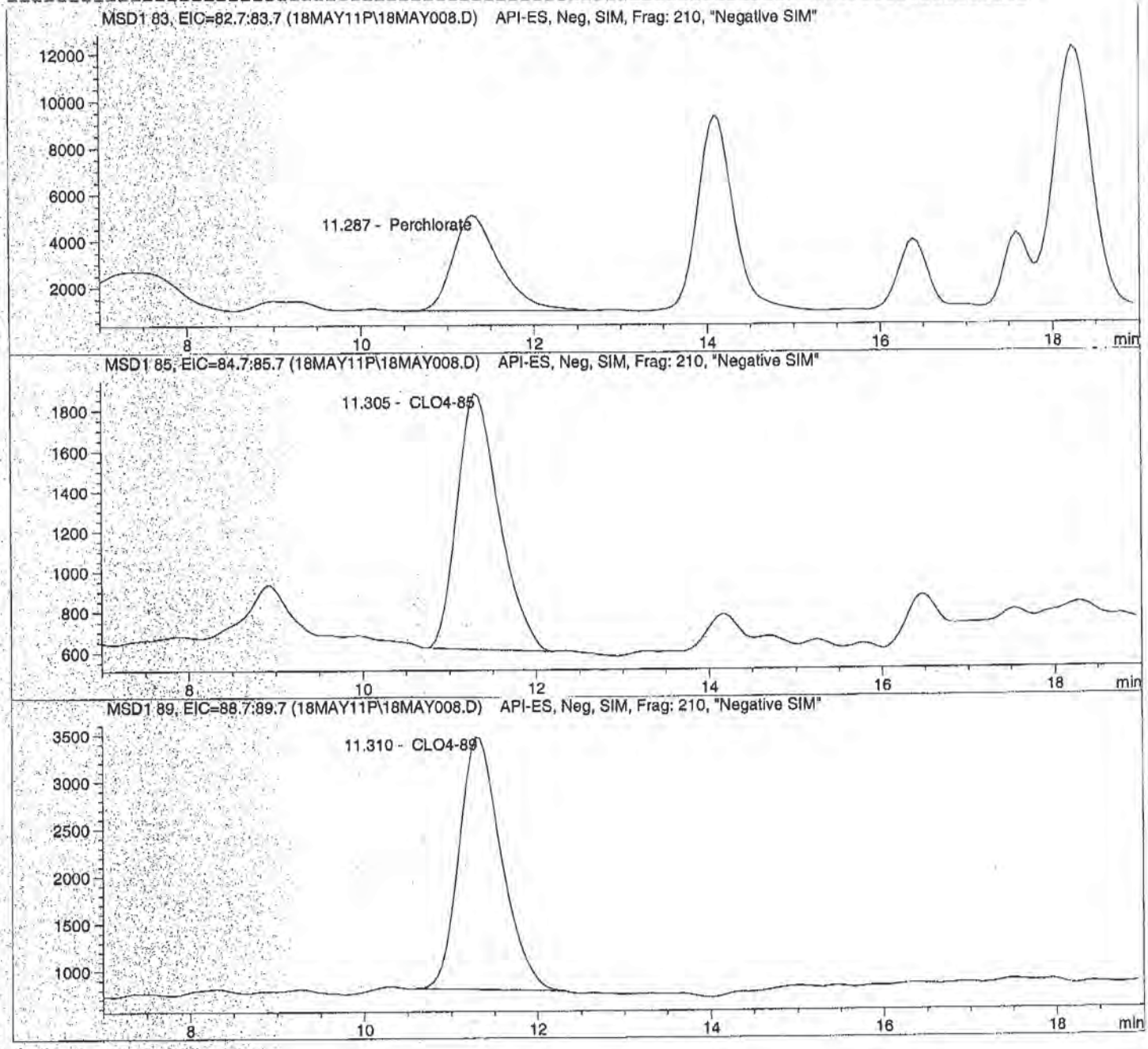
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date:	5/18/2011 18:30:40	Seq Line:	8
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date:	5/18/2011 18:30:40	Seq Line:	8
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.287	MM	154465.8	6.5517	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	PBA	42800.9	6.0272	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.310	MM	90780.9	5.0000	CLO4-89

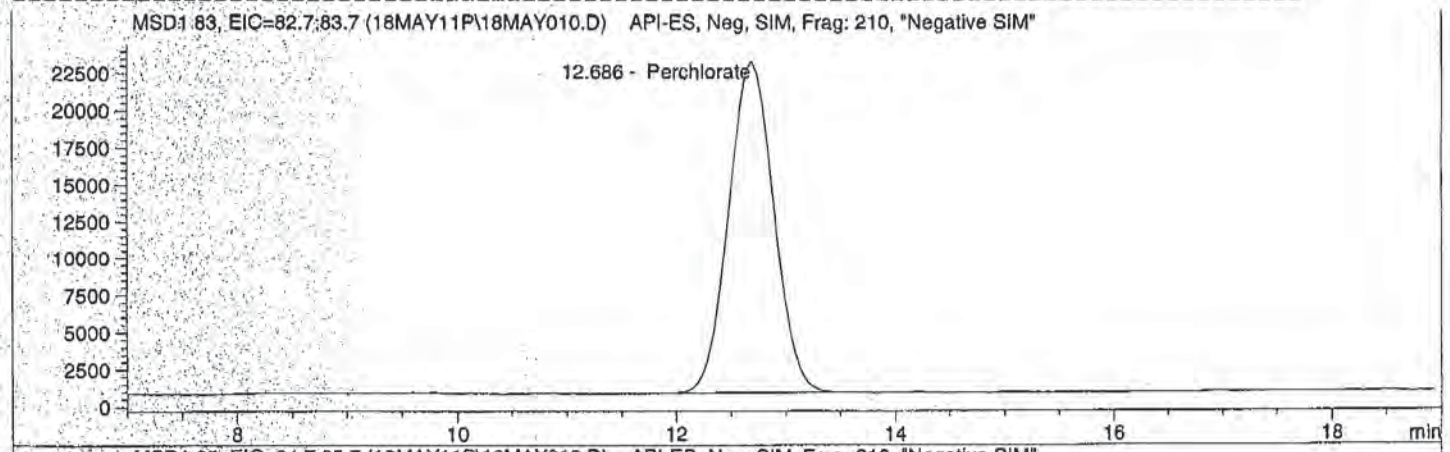
*** End of Report ***

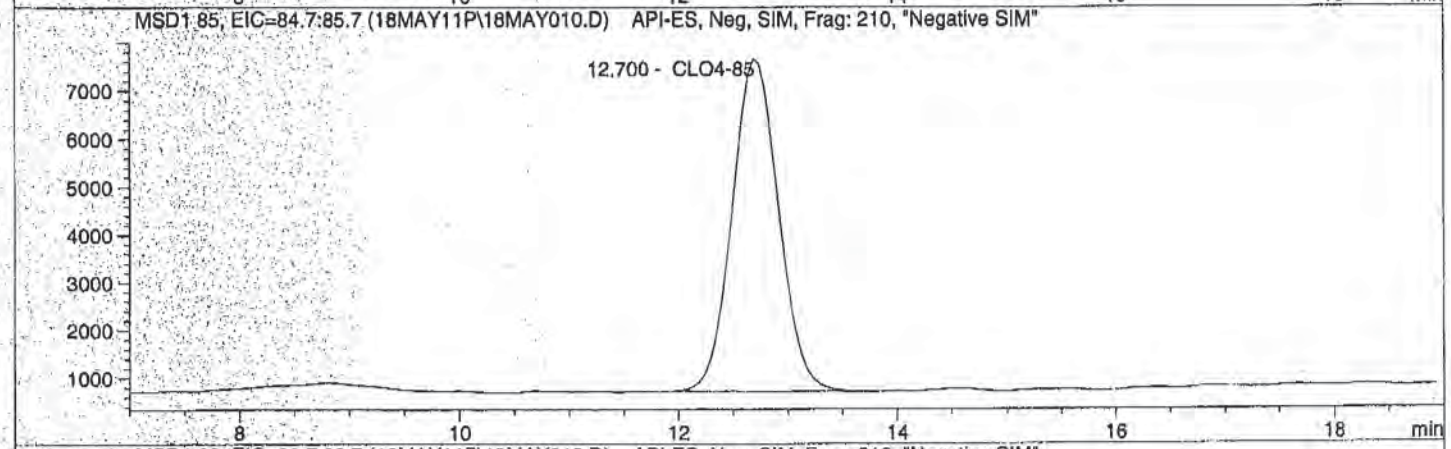
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

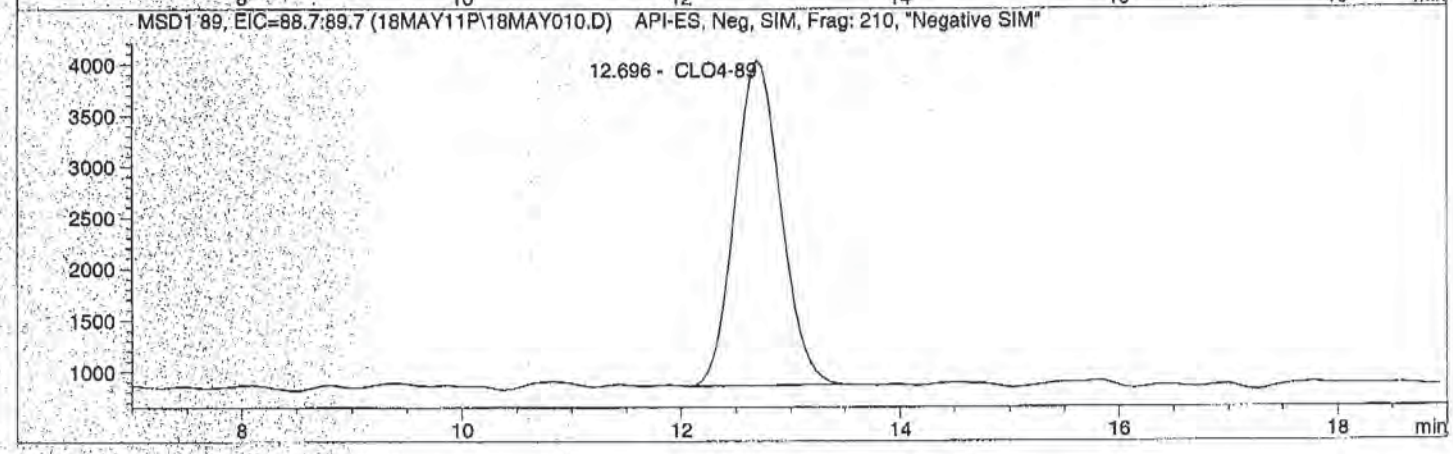
Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

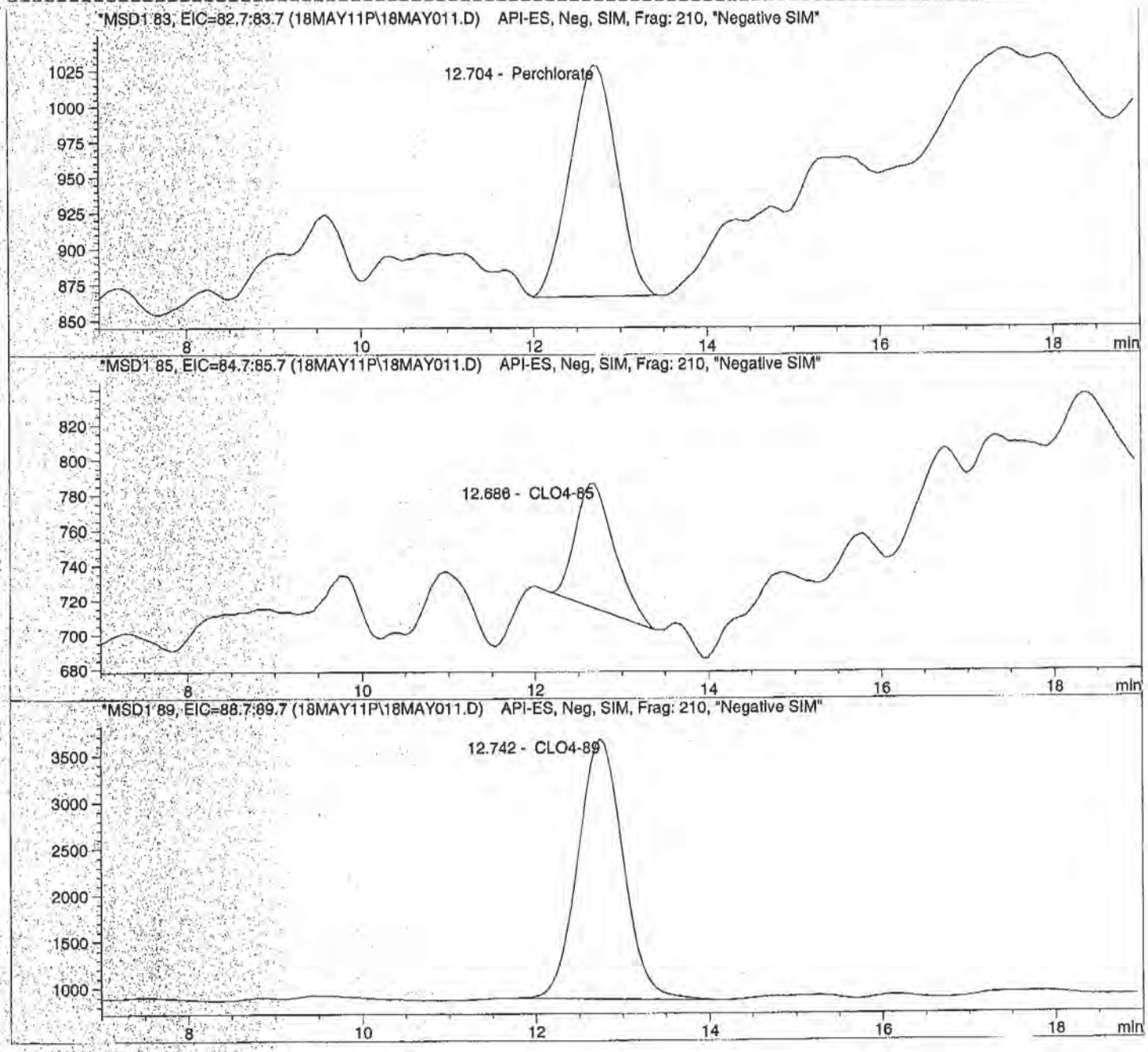
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

[' # ' ==> Run has not been reprocessed with Batch Review Method
' * ' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85212

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.00000
*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.00000
*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.00000
*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.00000
*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.00000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

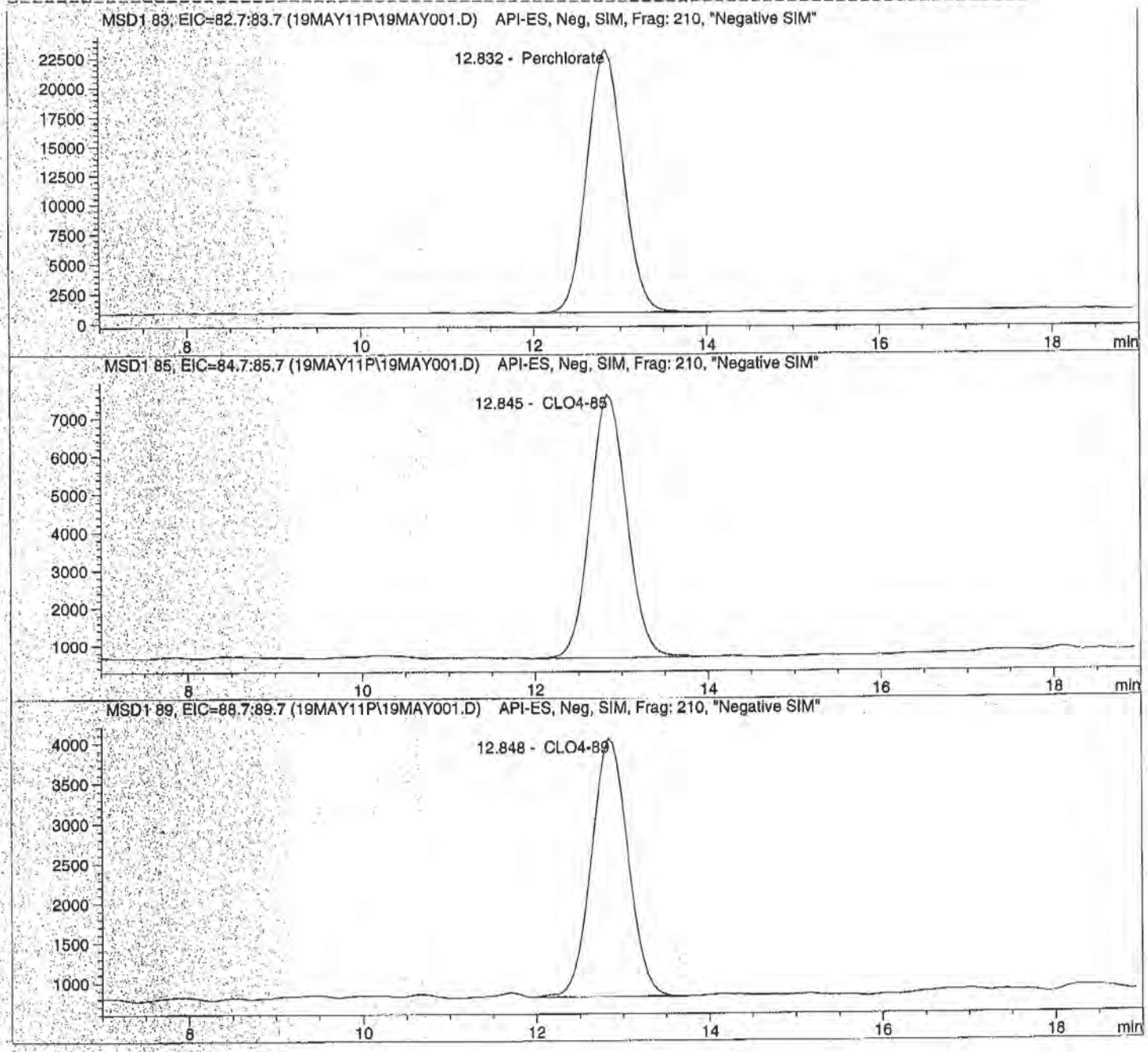
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544 CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001 5X	CLO4-ON	1	Sample		
3	Vial 7	219409 136181S	CLO4-ON	1	Sample		
4	Vial 8	219410 136181D	CLO4-ON	1	Sample		
5	Vial 1	219545 CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

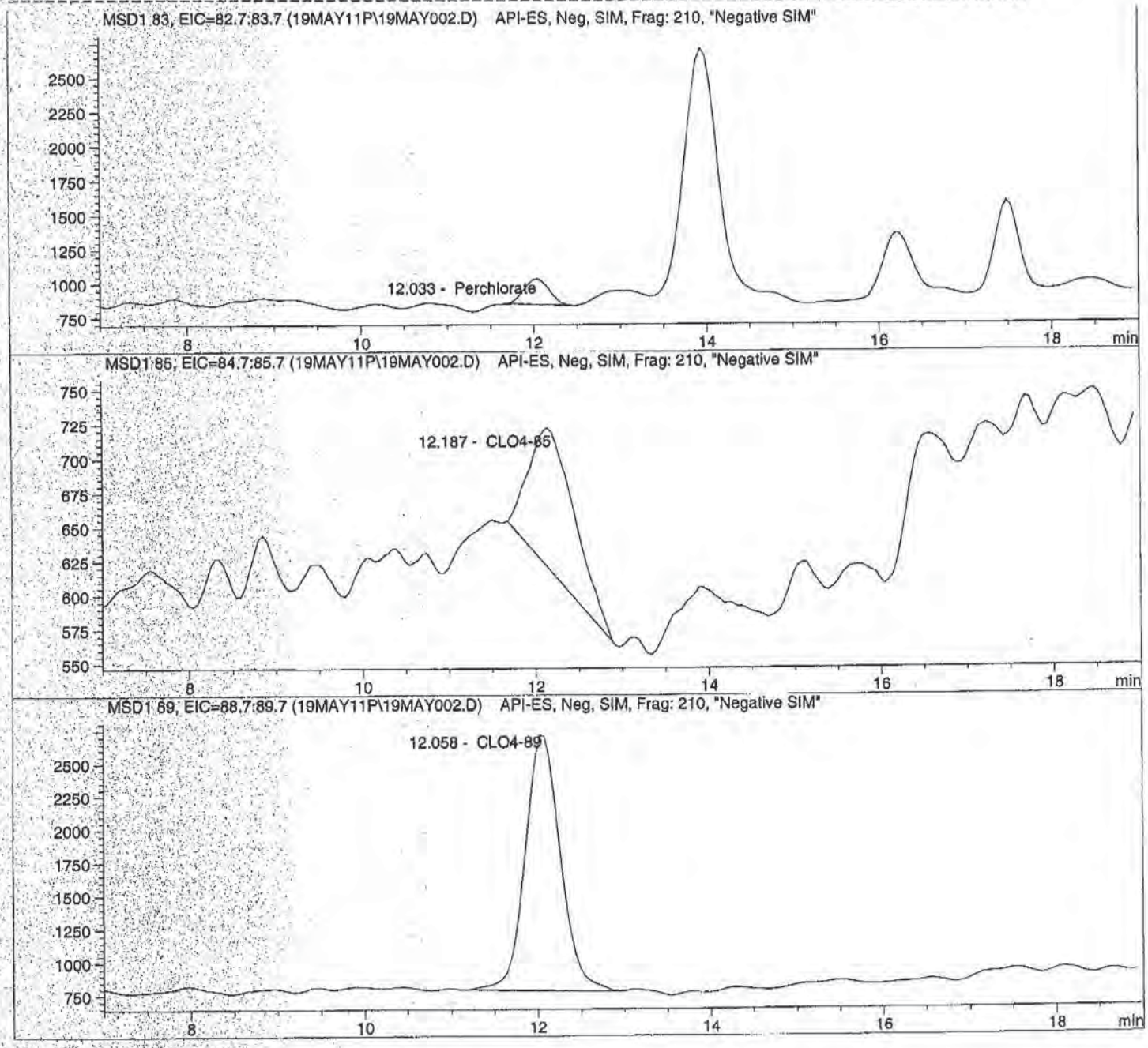
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

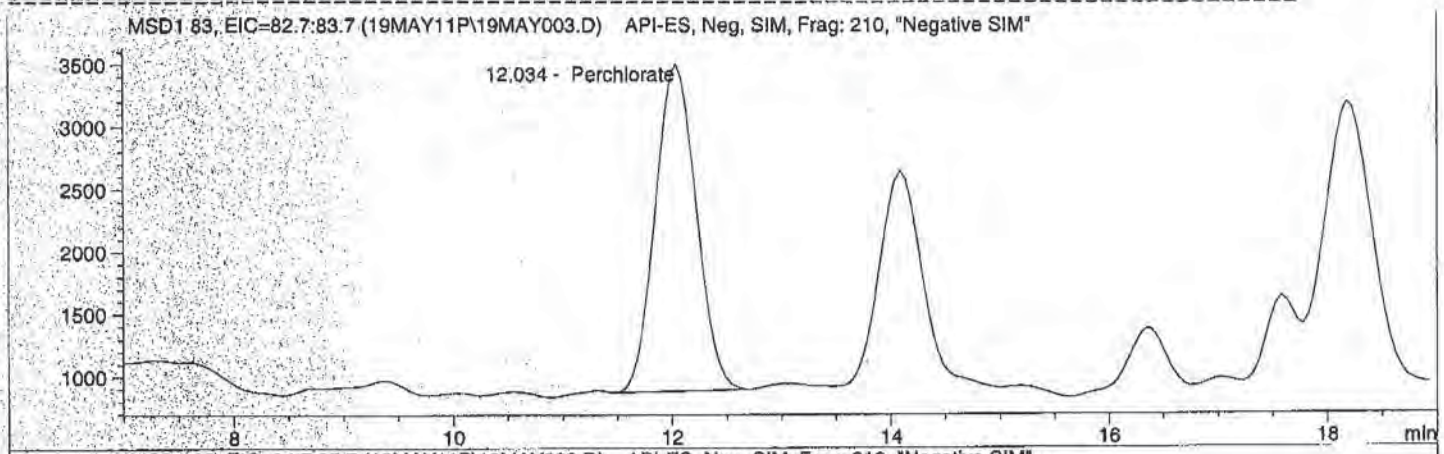
*** End of Report ***

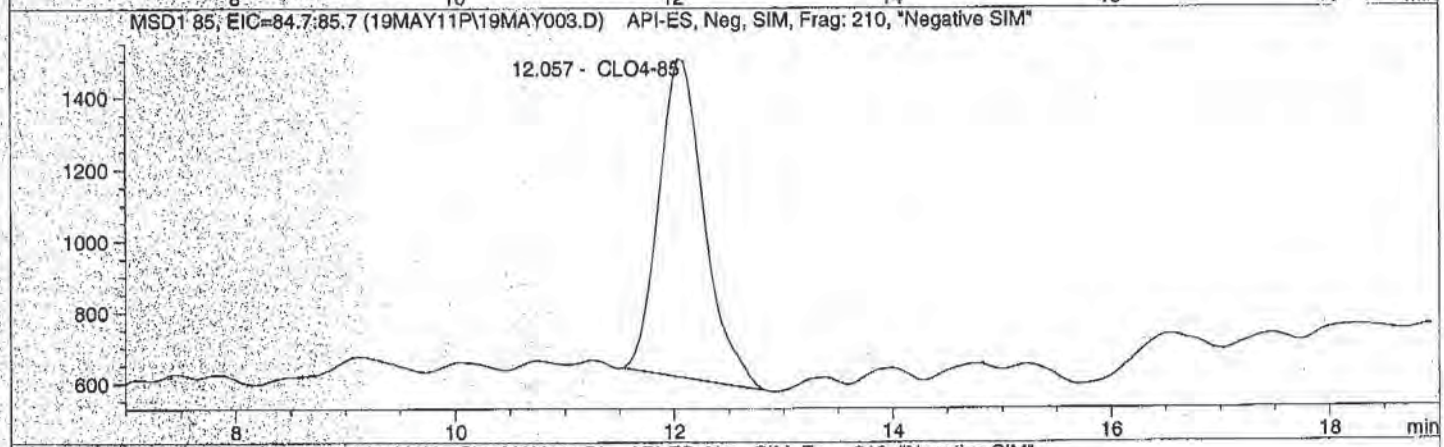
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

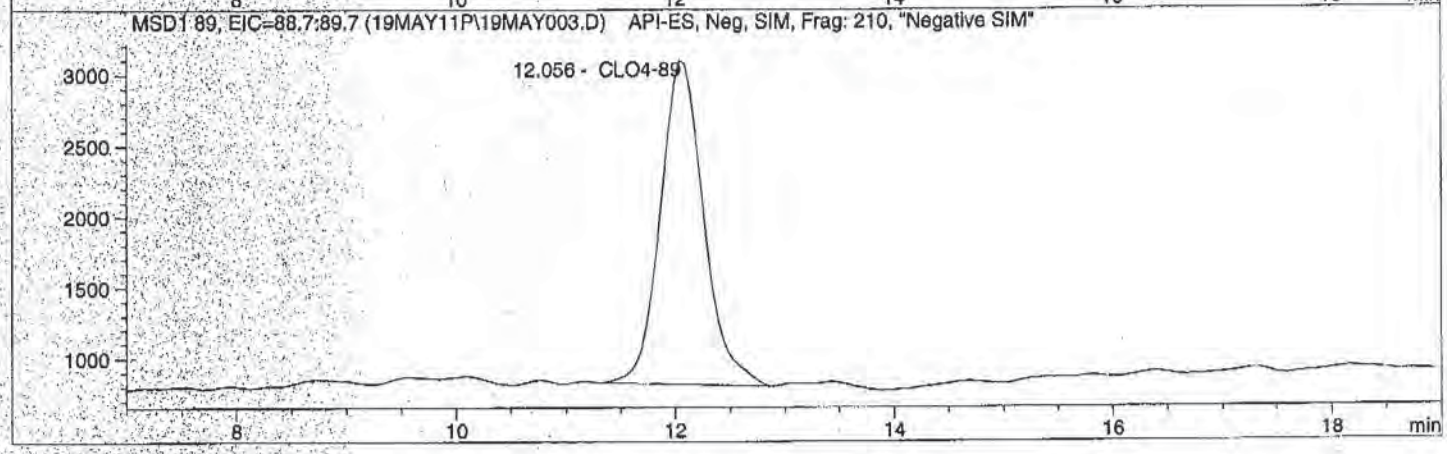
Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

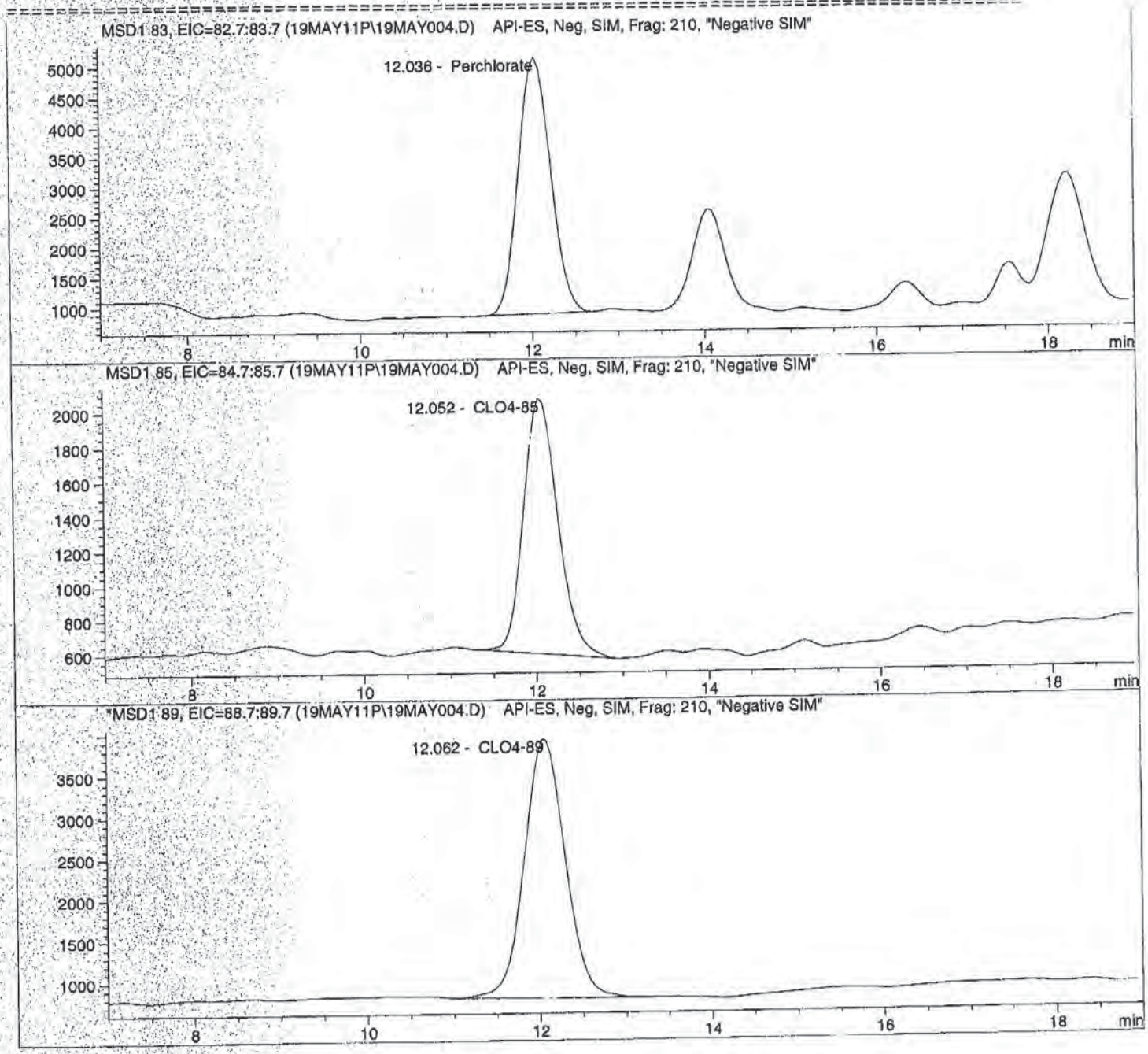
*** End of Report ***

Data File: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

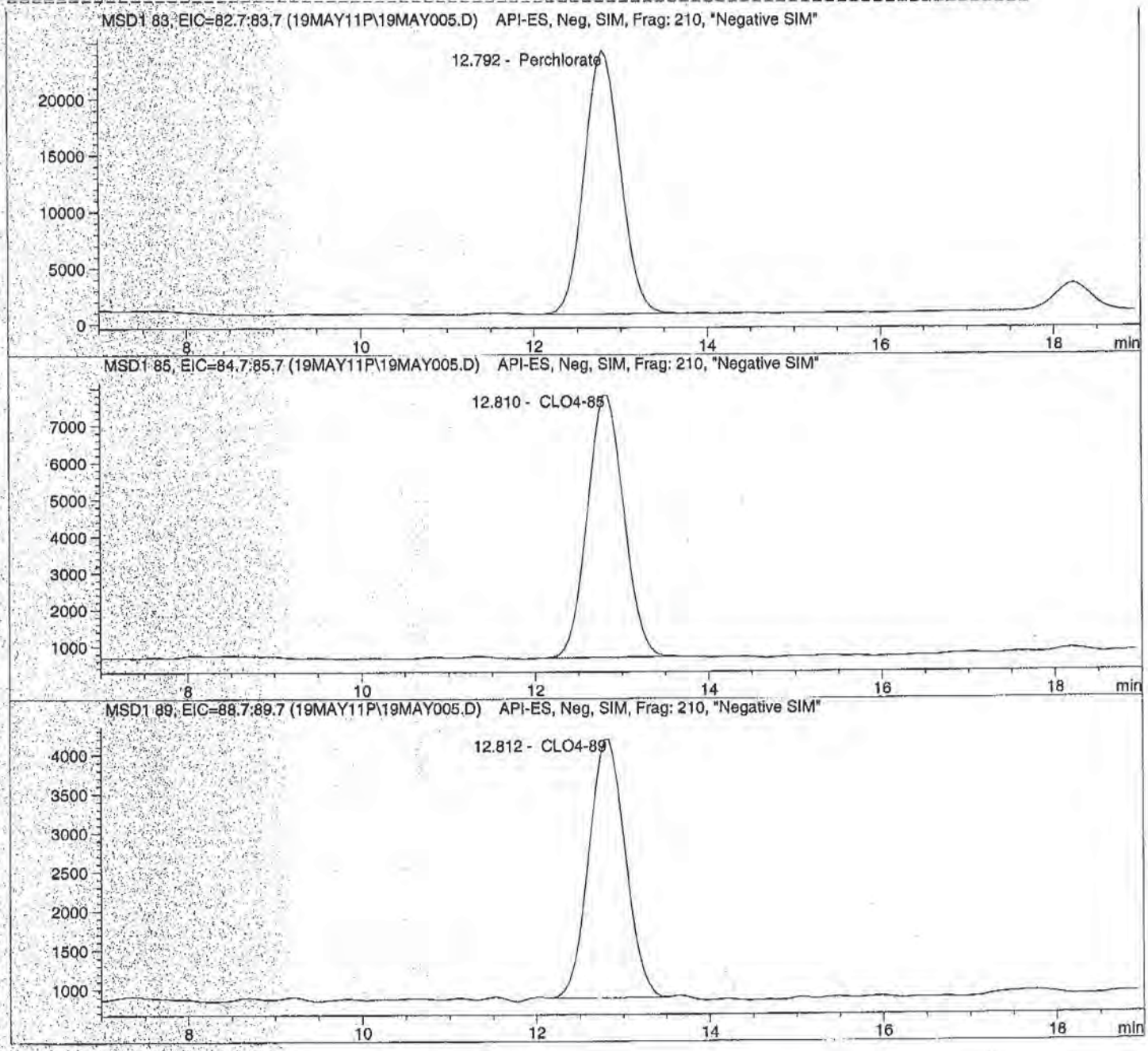
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5		1	Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5		1	CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

ethod C:\HPCHEM\1\METHODS\CLO4OFF1.M

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
- Time Window : From 10.107 min To 18.107 min
- Curve Type : Quadratic
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.25
  - Level 3 : 0.04
  - Level 4 : 0.01
  - Level 5 : 0.0004
  - Level 6 : 0.0001
  - Level 7 : 0.000016
  - Level 8 : 4e-006

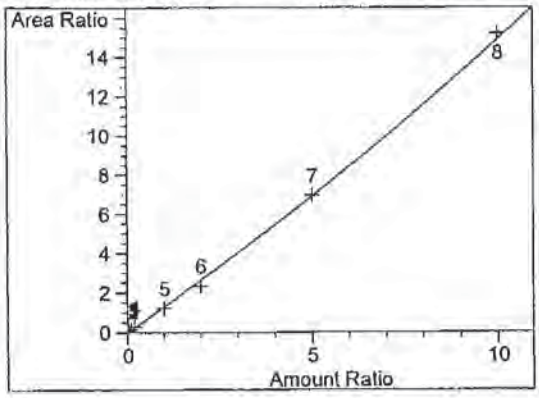
Compound: CLO4-89
- Time Window : From 10.065 min To 18.065 min
- Curve Type : Linear
- Origin : Included
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 1
  - Level 4 : 1
  - Level 5 : 1
  - Level 6 : 1
  - Level 7 : 1
  - Level 8 : 1

Compound: CLO4-85
- Time Window : From 10.121 min To 18.121 min
- Curve Type : Quadratic
- Origin : Ignored
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.5
  - Level 3 : 0.2
  - Level 4 : 0.1
  - Level 5 : 0.02
  - Level 6 : 0.01
  - Level 7 : 0.004
  - Level 8 : 0.002

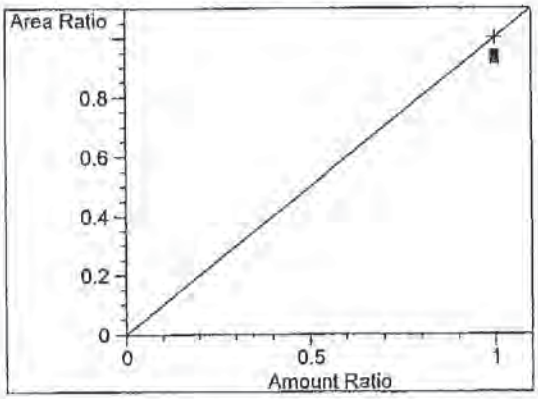
Peak Sum Table

No Entries in table

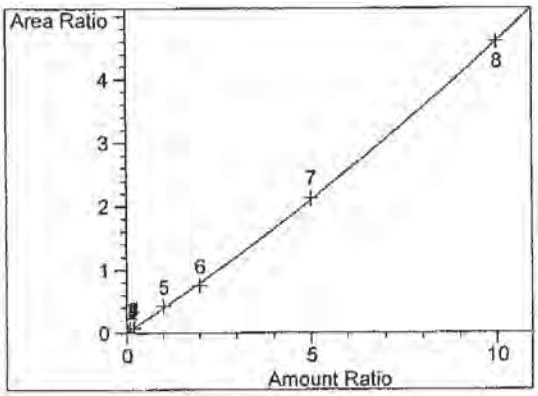
Calibration Curves



Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

Sequence Table:

Method and Injection Info Part:

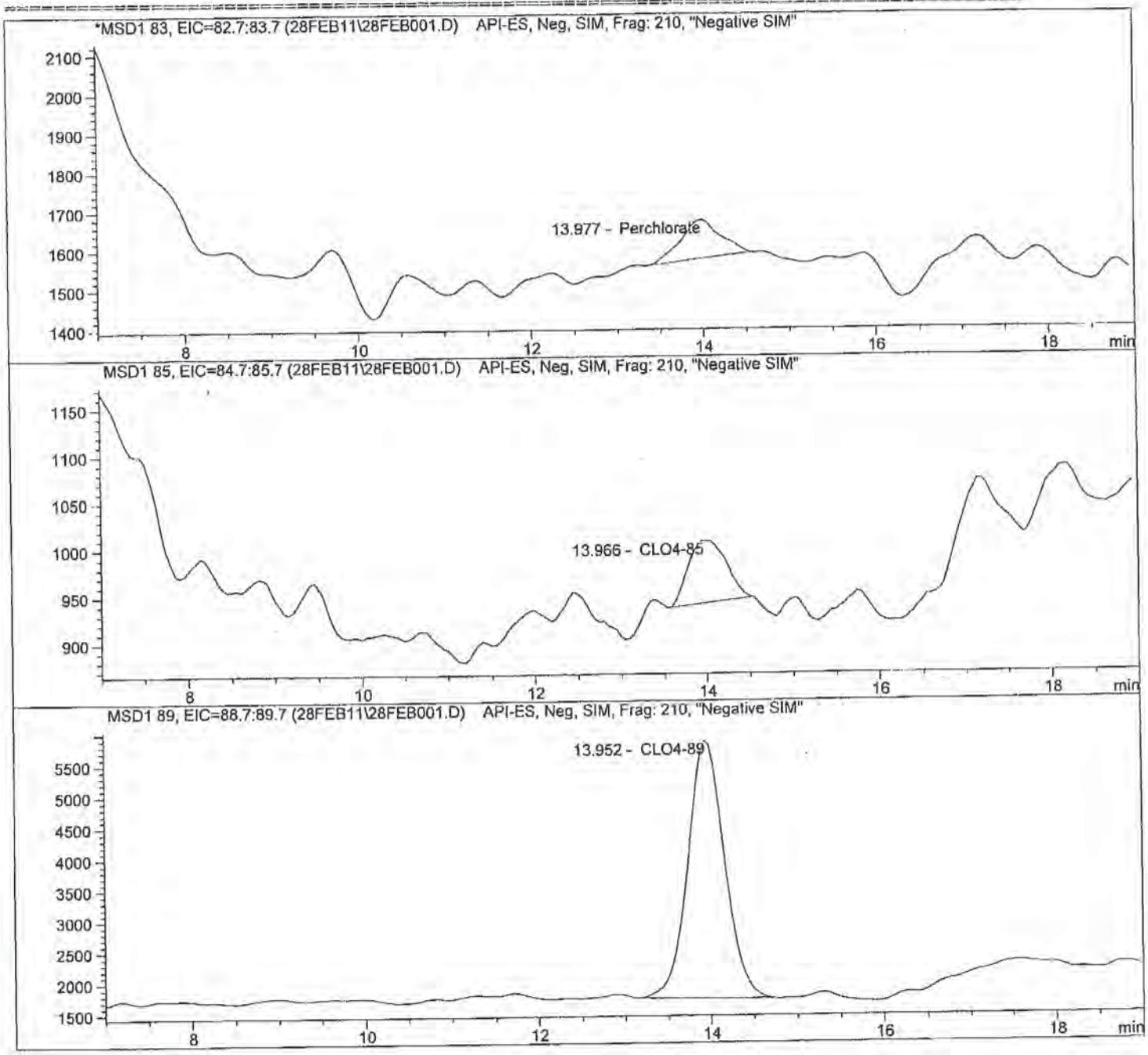
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

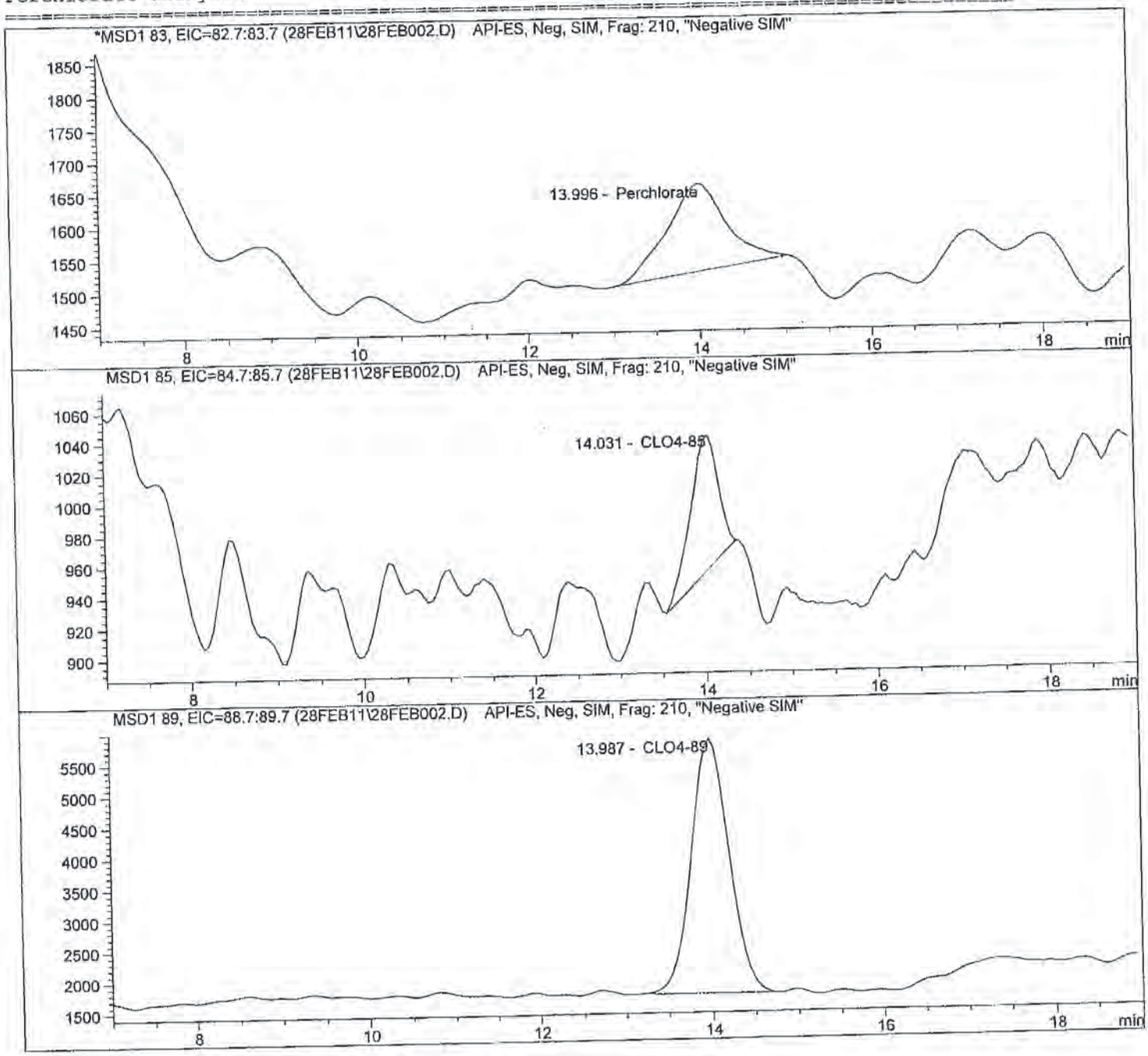
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

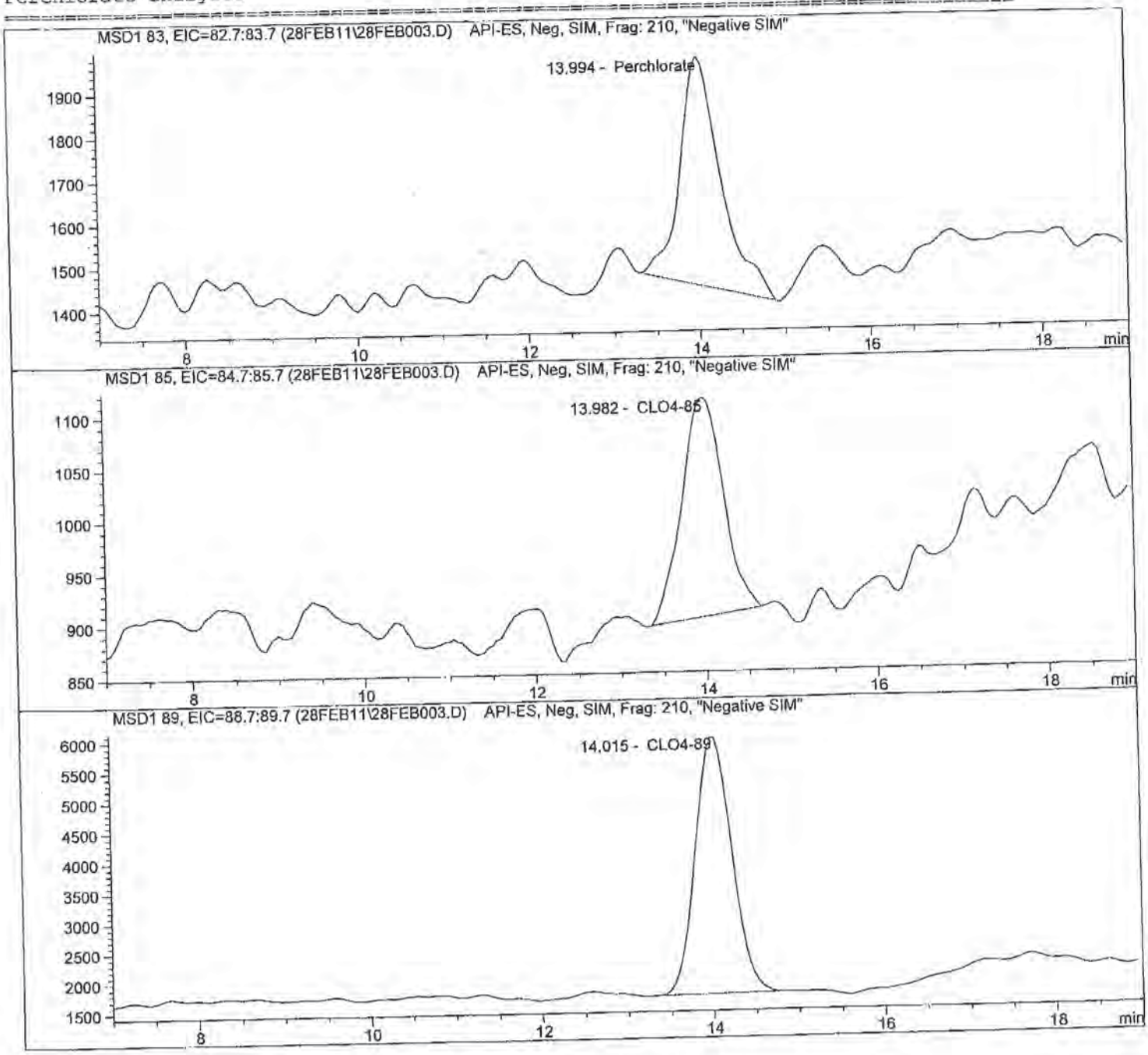
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

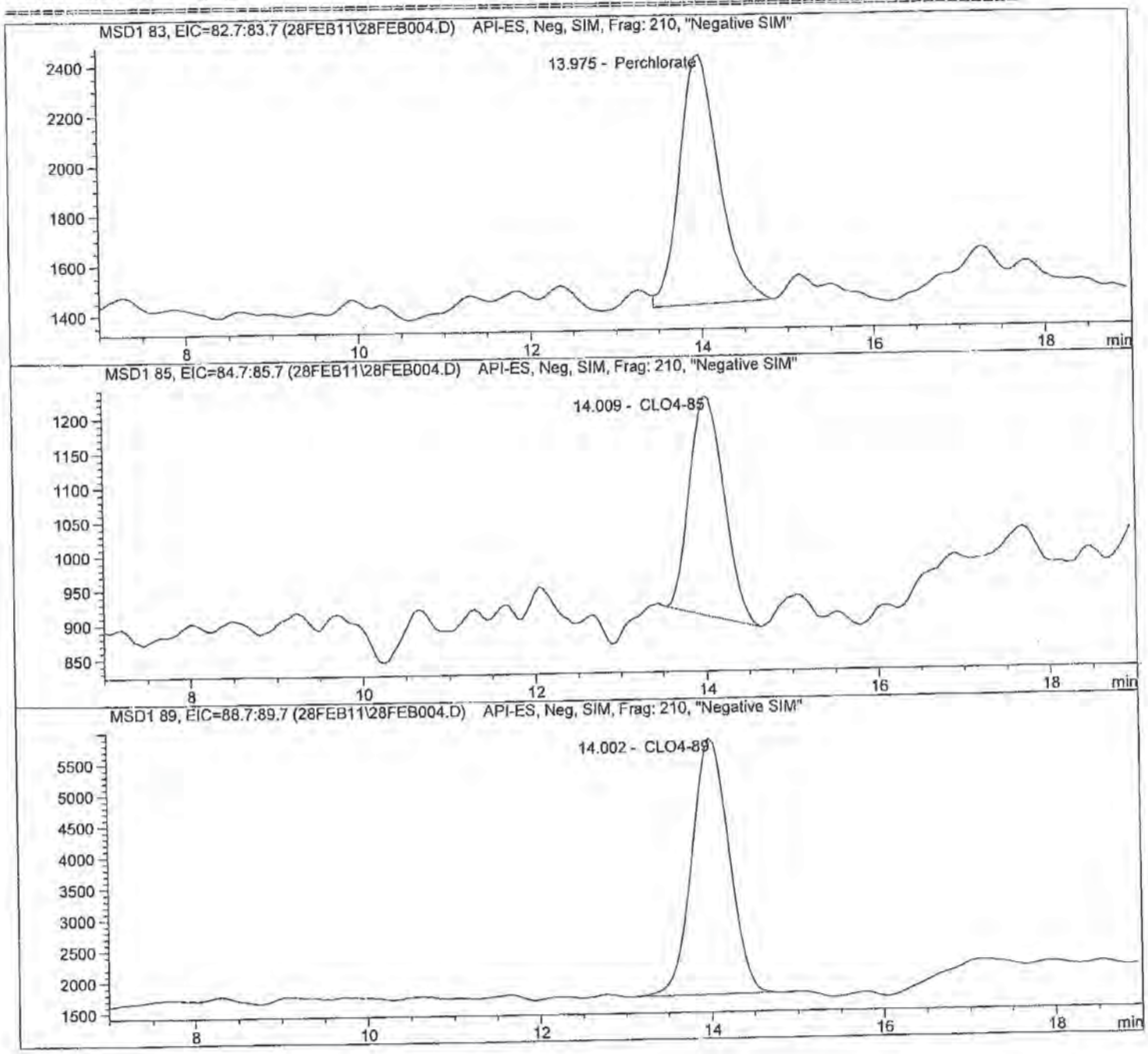
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

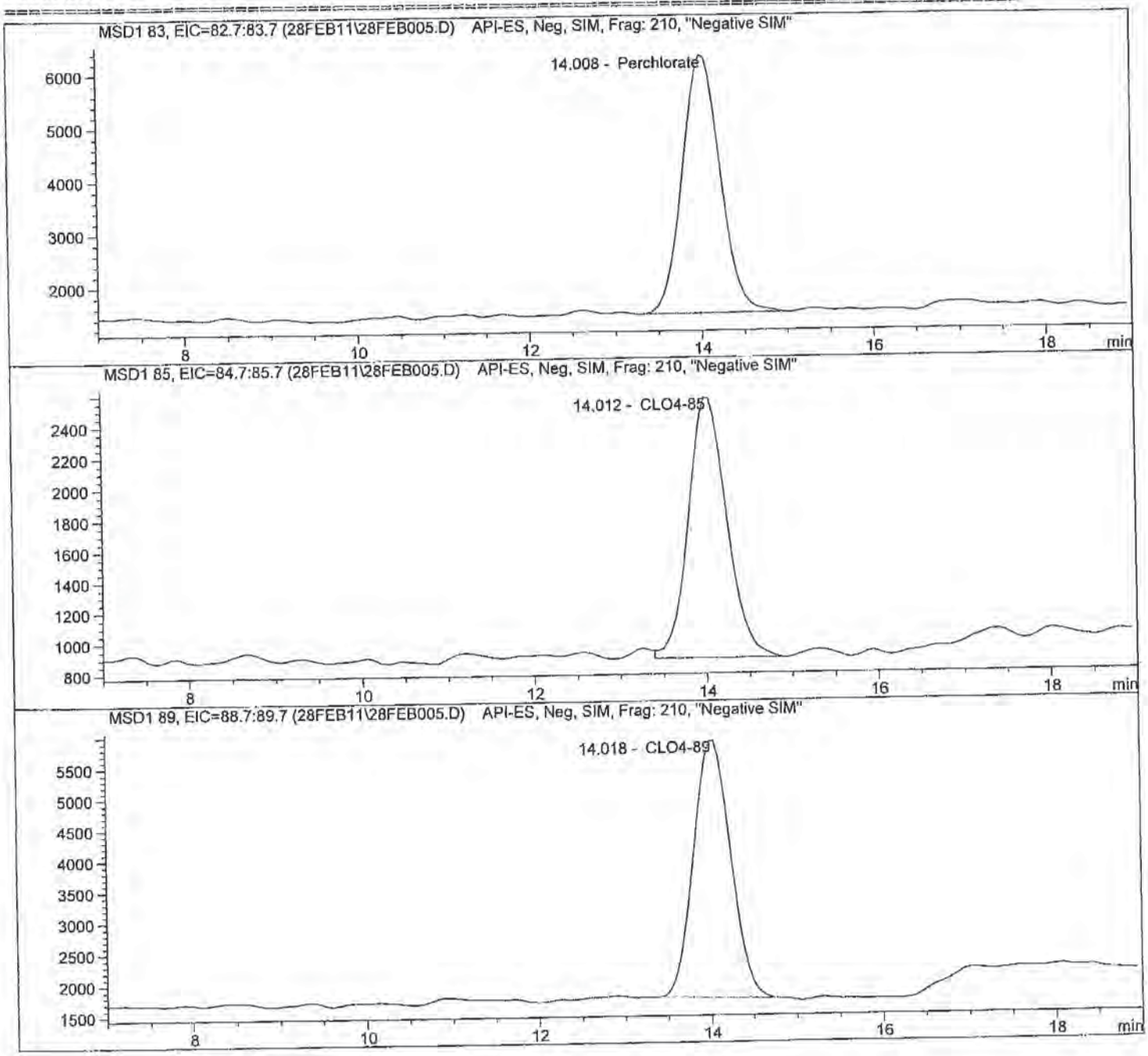
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

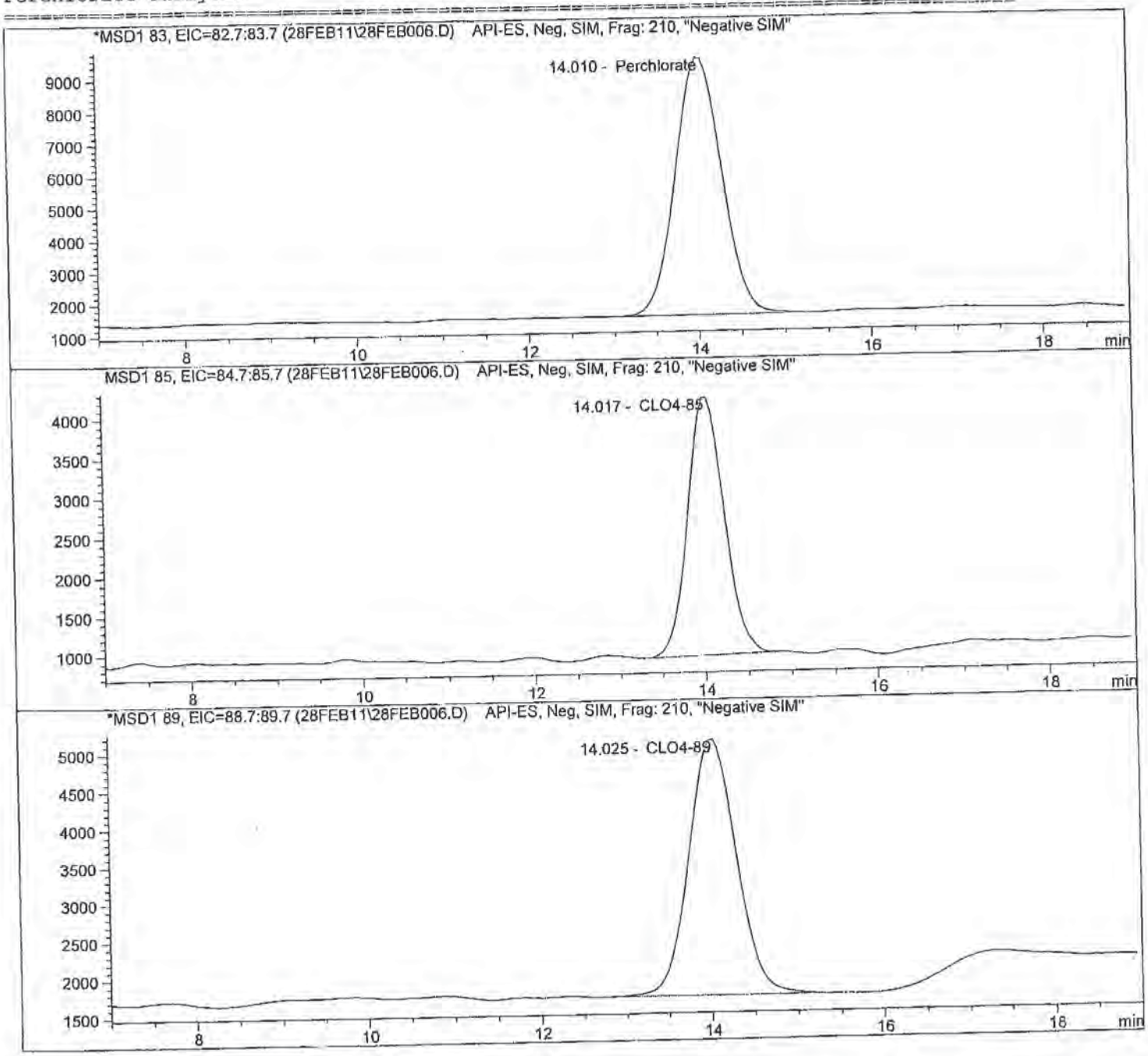
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

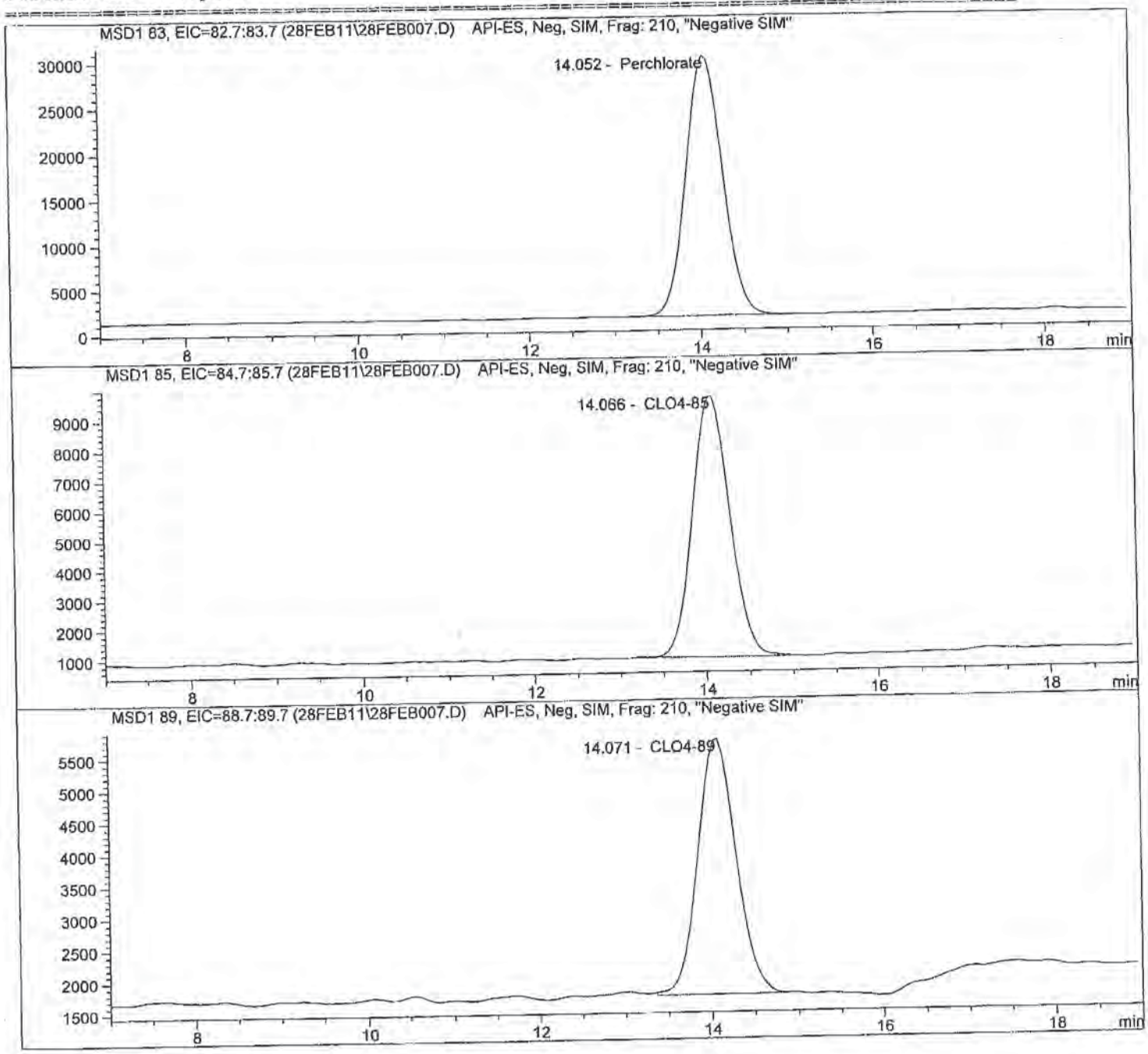
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

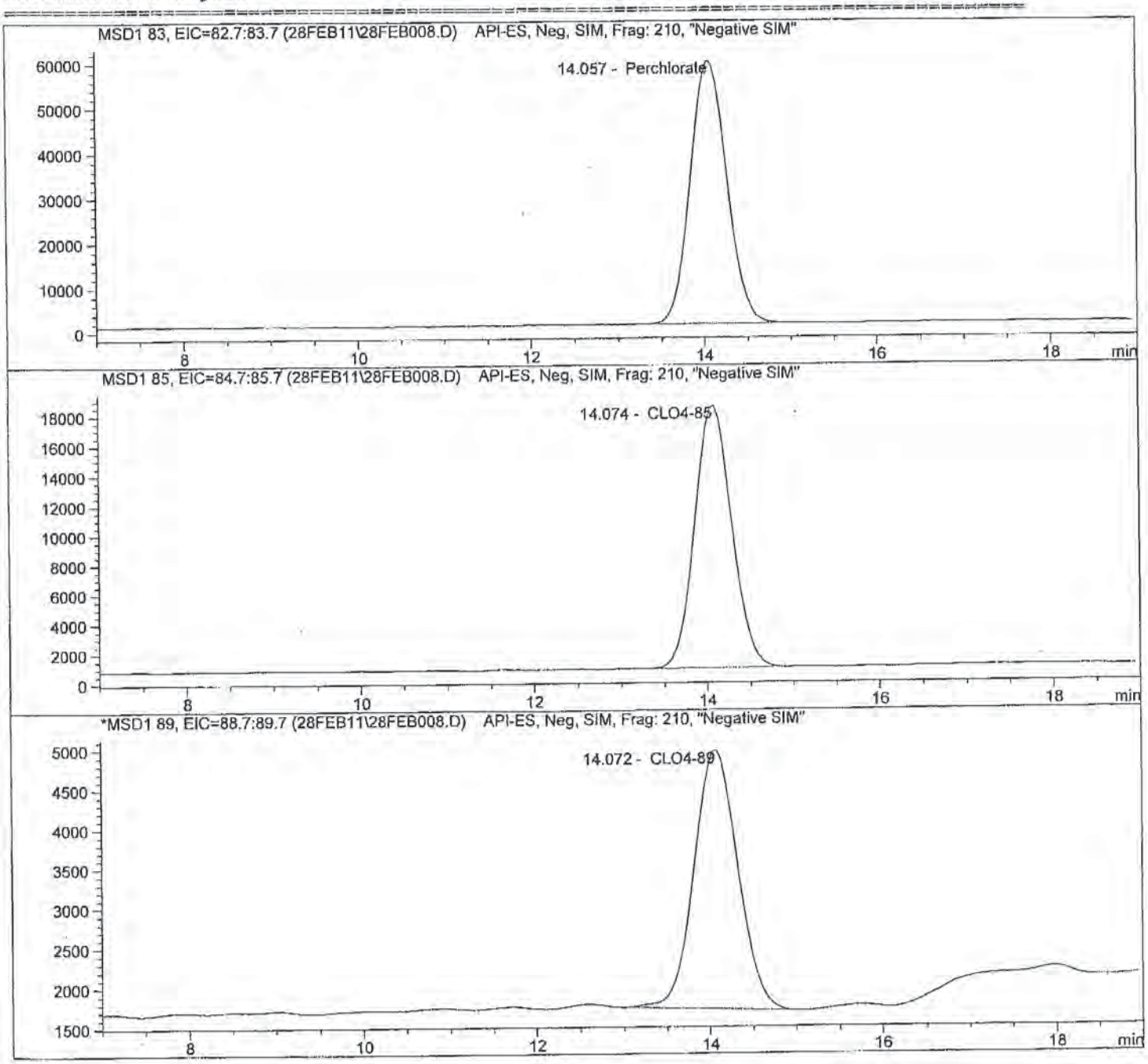
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

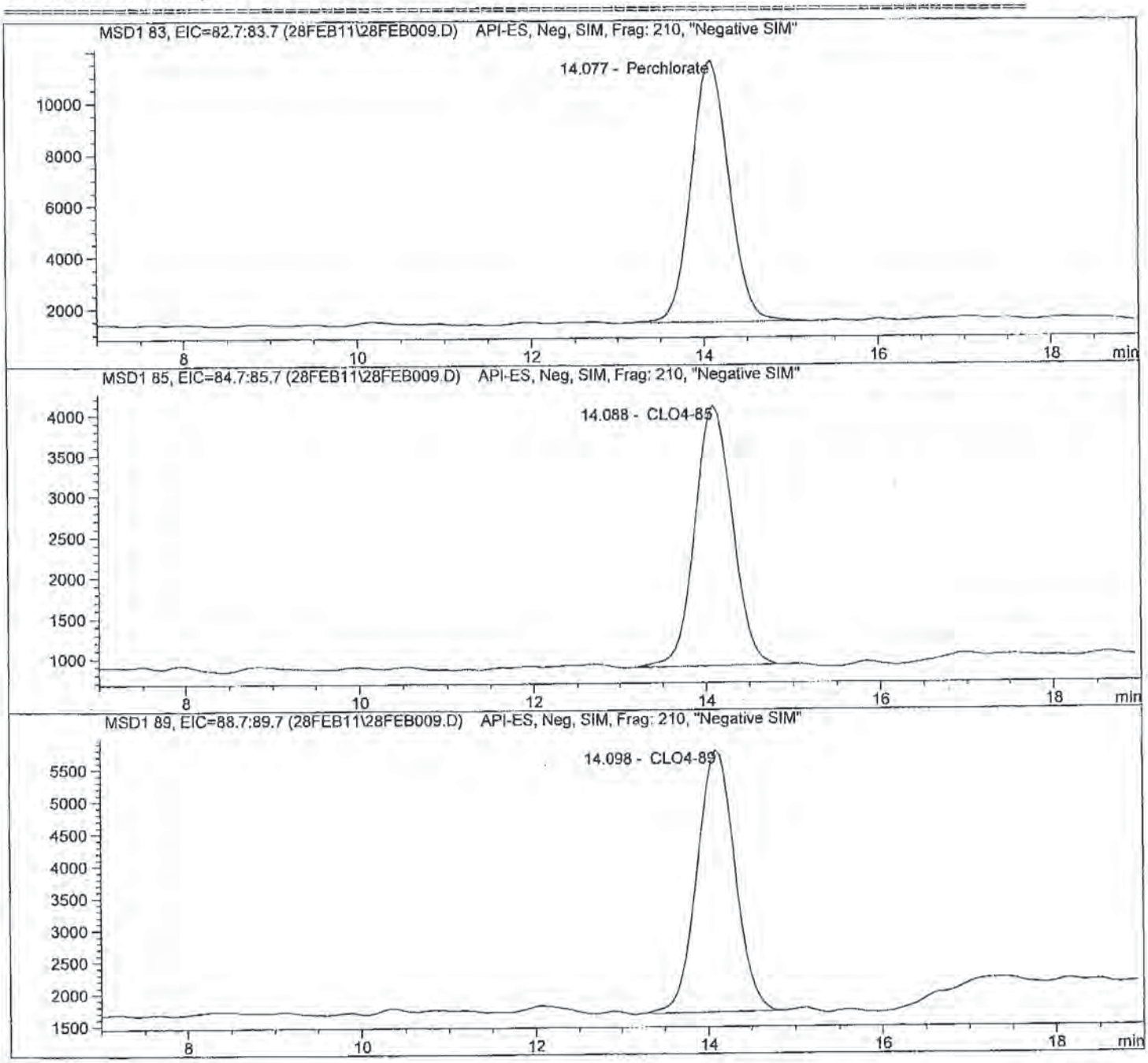
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113618**
Project ID: F82298X
Purchase Order: F82298X

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MWQ 22	1113618001	05/11/11	05/14/11	F82298X

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113618

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011

Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MWQ 22**	Sampling Site: F82298X	Collected: 05/11/2011
Lab ID: 1113618001	Media: 250 mL Nalgene	Received: 05/14/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/19/2011 10:48	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	1.4	1.0	10	5	J

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	Peer Review

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at http://health.utah.gov/lab/labimp/labcert/envlabcert.html. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

1113618

ACCUTEST Laboratories

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

41810 / # 1 1113618

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F82298X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	PERCHLORATE 6850	LAB USE ONLY
1	MWQ 22	05/11/11	11:01		GW	1		X								X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
Dwl
05-Nov11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - AS
Approved by -

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
2	05-11-11 1200	2	3 FR		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: F82298X | **Split:** | **Workorder ID:** 1113618

Client: Accutest Laboratories | **Account:** 8001

Comments:

Requested Analysis: EPA 8650

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Type: 250Poly / Preservatives: COOL	Containers ID(s)	Containers Count	EPA 8650
1	05/11/2011 11:01	MWQ 22	1113618001		Water		A	1	A
2									
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Warath, Julie	05/14/2011 00:00	ALS Sample Receiving	Sample Login
Julie Warath	5/16/11 1130	13B	storage
R.33.1	5/18/11/1300	Tom Bosch	CLP analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20-1113618-03

2011-05-16-1113618-02

ALS LABORATORY GROUP SALT LAKE CITY CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Pioneer

Project/Task/Site: 1113618

Date/Time of Receipt: 5/14/11 830

Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA Intact/Broken/NA	Location Temp Taken:	Control/Between Samples
Tamper Evident:	Yes/No/NA	Are all temperatures within project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA Frozen/Melted/NA	Are all applicable pHs within specific guidelines?	Yes/No/NA

PH Check:						
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7765	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) Meredith Edwards (Printed Name) 5/14/11 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Sample name MWQ-22 listed on paperwork does not appear on container. It shows F822941 on container.

Faxed to Client? YES ☐ No ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name)

Returned to Sample Receipt by: _____ (Signature)

Date: _____

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified
Basis: DoD QSM V.4.1

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: EPA 6850
Batch: ELMS/1182 (HBN: 66508)
Analyzed By: Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

CCV: 219404 Analyzed: 05/18/2011 16:04 Units: ug/L Criteria: ± 15%				CCV: 219411 Analyzed: 05/18/2011 19:12 Units: ug/L Criteria: ± 15%			CCV: 219544 Analyzed: 05/19/2011 10:27 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

CCV: 219545 Analyzed: 05/19/2011 11:51 Units: ug/L Criteria: ± 15%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

ICS: 219406 Analyzed: 05/18/2011 16:46 Units: ug/L Criteria: ± 30%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

LODV: 219405 Analyzed: 05/18/2011 16:25 Units: ug/L Criteria: ± 30%				LODV: 219412 Analyzed: 05/18/2011 19:33 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	0.159	0.1	*159	0.237	0.1	*237

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	Peer Review	Date

Symbols and Definitions

* - See Comments section for more information

▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: **ELMS/ 1182**
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850...3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850....3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850...3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	6/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence: \\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:
Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation.
Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description: 6850 Working Standard

Standard:	10684	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT					Description - 6850 Intermediate Stock
Standard:	10683	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O				Description: ASTM Type II Water	
Standard:	109	Expires:	11/7/2015	Usable:	Yes
Lab Lot:	LAB 109	Created By:	ALS Support (Lims)	Amount:	100 L
Part ID:		Create Date:	10/6/2005	Validated By:	
MFG:	DCL In House	MFG Lot:		Validated Date:	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK				Description - 6850 Stock Standard	
Standard:	7186	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 STOCK	Created By:	T. Bosch	Amount:	250 mL
Part ID:	IC-PER-10X-1	Create Date:	2/8/2010	Validated By:	
MFG:	AccuStandard	MFG Lot:	209115027	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK					Description: 6850 QC Working Standard
Standard:	10687	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK				Description: 6850 QC Stock Standard	
Standard:	10685	Expires:	5/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC STOCK	Created By:	T. Bosch	Amount:	100 mL
Part ID:	ICC-013	Create Date:	2/10/2011	Validated By:	
MFG:	Ultra Scientific	MFG Lot:	L00429	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT					Description - 6850 QC Intermediate Standard
Standard:	10686	Expires:	05/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

A2LA ACCREDITED

ISO 17025:2005
Accredited
A2LA
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250 Smith Street, North Kingstown, RI 02852 USA
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www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK				Description - Perchlorate ISTD Wrk	
Standard:	10682	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4ISTDWRK	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	T. Bosch
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description - Perchlorate ISTD Stock	
Standard:	3915	Expires:	9/28/2017	Usable:	Yes
Lab Lot:	CLO4ISTDSTK	Created By:	T. McKay	Amount:	1 mL
Part ID:	OLM-7310-1.2	Create Date:	2/5/2009	Validated By:	T. Bosch
MFG:	Cambridge Isotope	MFG Lot:	SCHI-001	Validated Date:	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: PERCHLORIC ACID, SODIUM SALT
(Isotopic Label & Enrichment Specification) (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

S 3915

Product Information

Chemical Purity Specification:	≥98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 μg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 μg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorat Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547	24.4933
*	219405 LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549	1.59442e-
*	219406 ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539	8.46863e-
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.0000
*	219408 LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685	4.5082
*	1113618001	Vial 6	1	18MAY006.D	2.17021e4	11.241	2.0218
*	219409 136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297 NR	7.5273
*	219410 136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287	6.5517
*	1113713001	Vial 9	1	18MAY009.D	3.58555e5	10.925	19.5730
*	219411 CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686	25.1600
*	219412 LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704	2.36525e-

NR. Not Reported

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-8 Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.8003
*	219405 LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-
*	219406 ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.0000
*	219408 LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.8749
*	1113618001	Vial 6	1	18MAY006.D	4403.96973	11.262	1.2950
*	219409 136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.7841
*	219410 136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.0272
*	1113713001	Vial 9	1	18MAY009.D	1.18943e5	10.937	21.3256
*	219411 CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.3223
*	219412 LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-8 Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.0000
*	219405 LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.0000
*	219406 ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.0000
*	219407 LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.0000
*	219408 LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.0000
*	1113618001	Vial 6	1	18MAY006.D	4.19646e4	11.286	5.0000
*	219409 136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.0000
*	219410 136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.0000
*	1113713001	Vial 9	1	18MAY009.D	6.75993e4	10.934	5.0000
*	219411 CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.0000
*	219412 LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.0000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

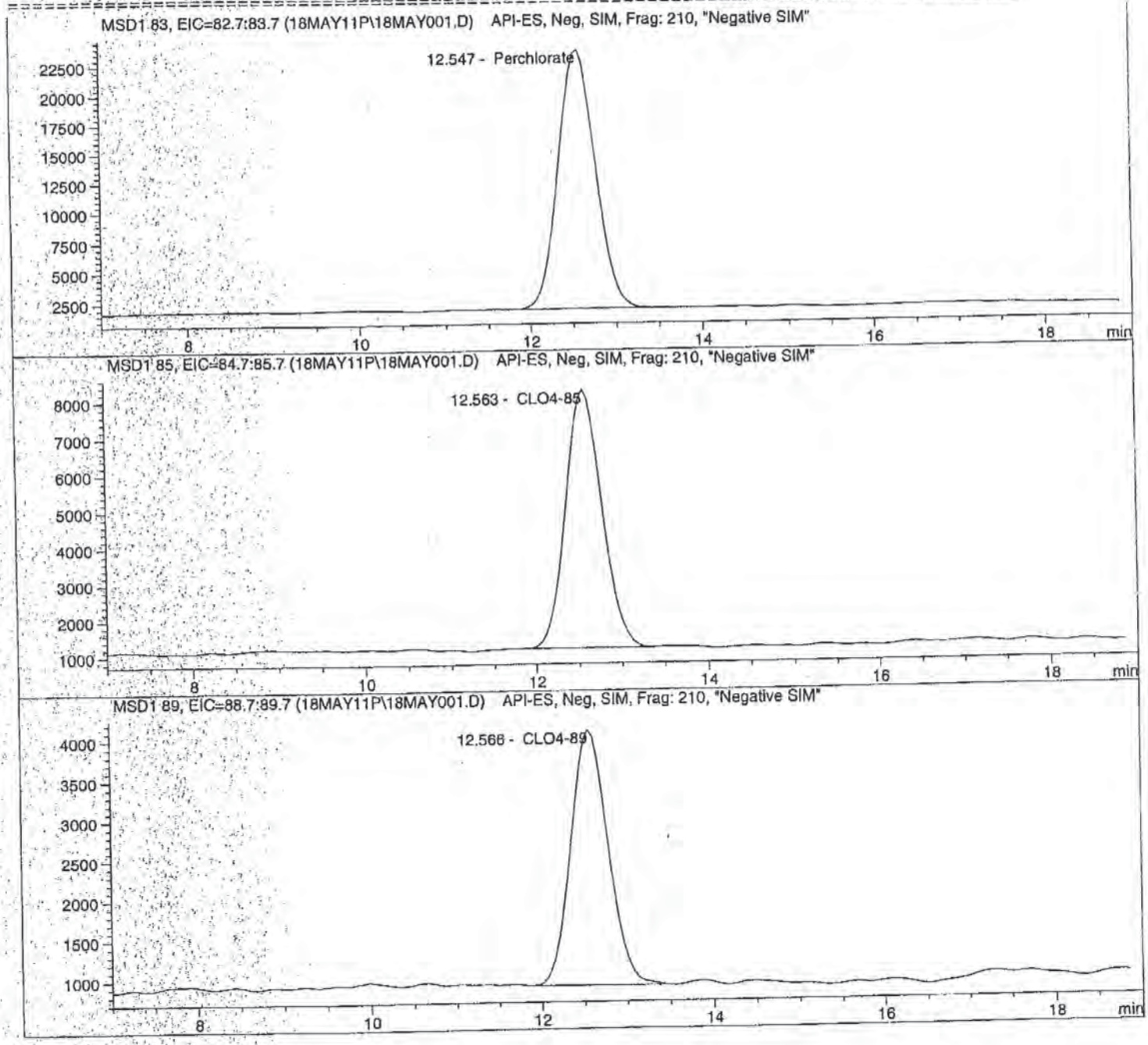
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

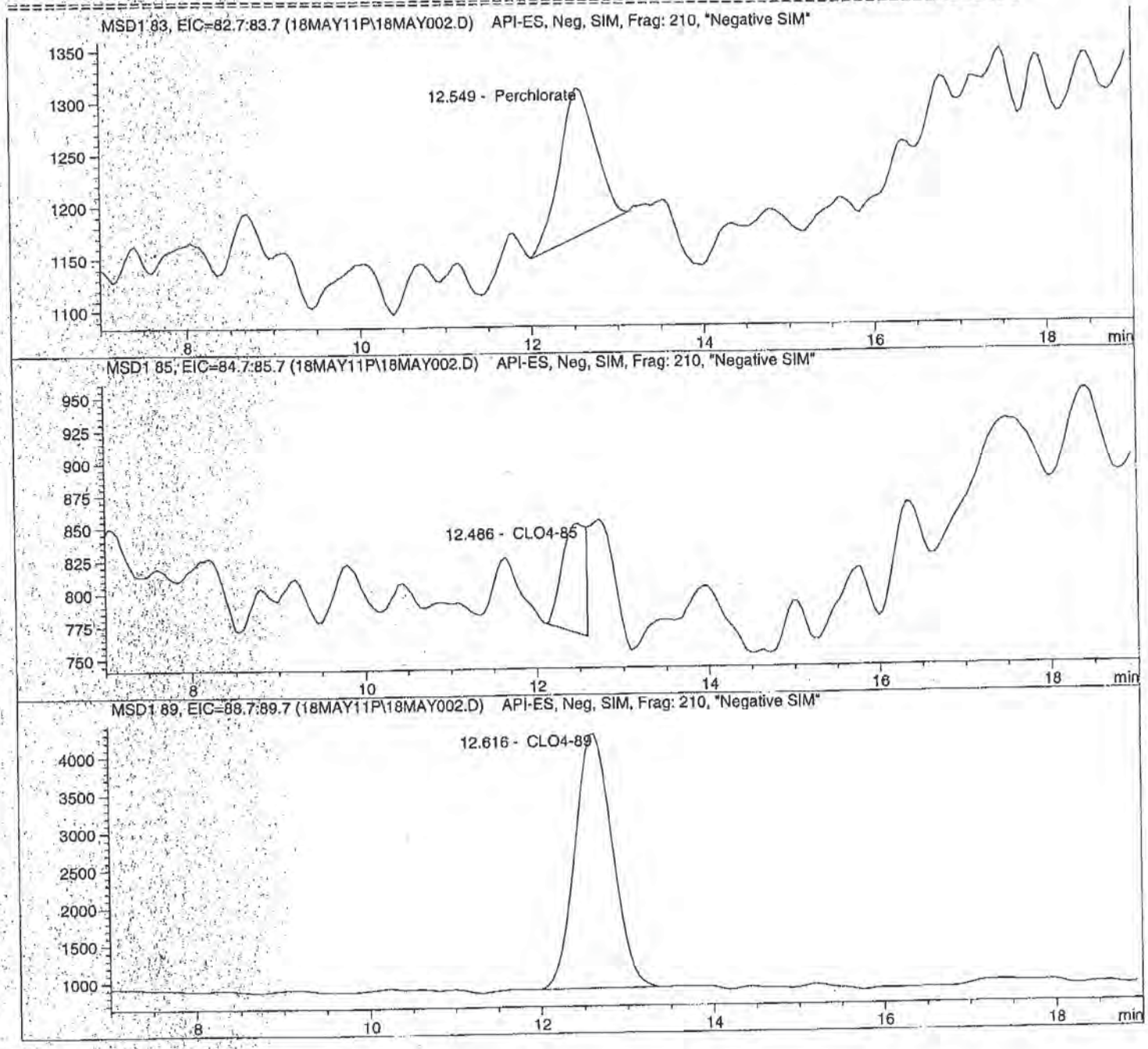
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

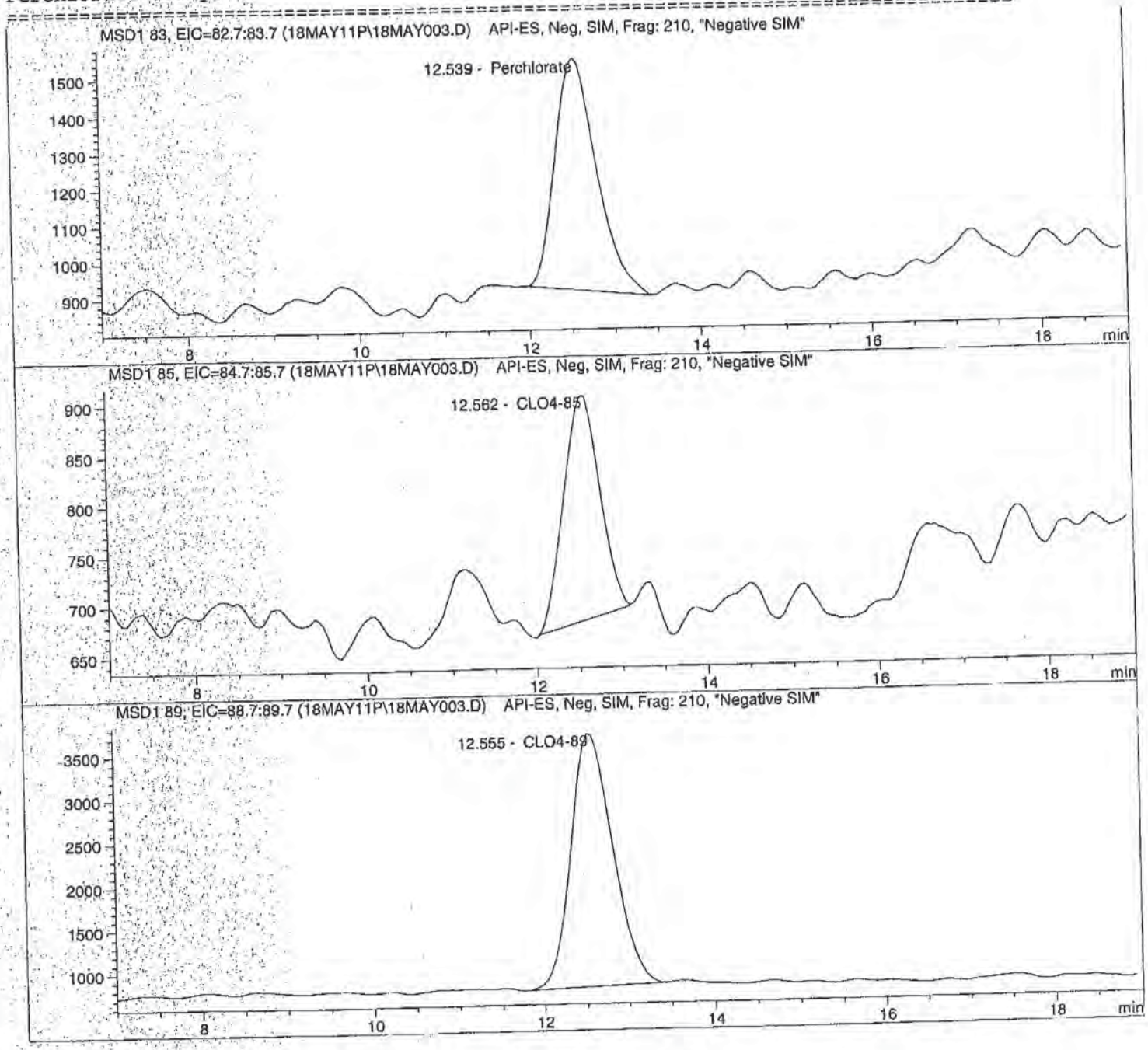
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

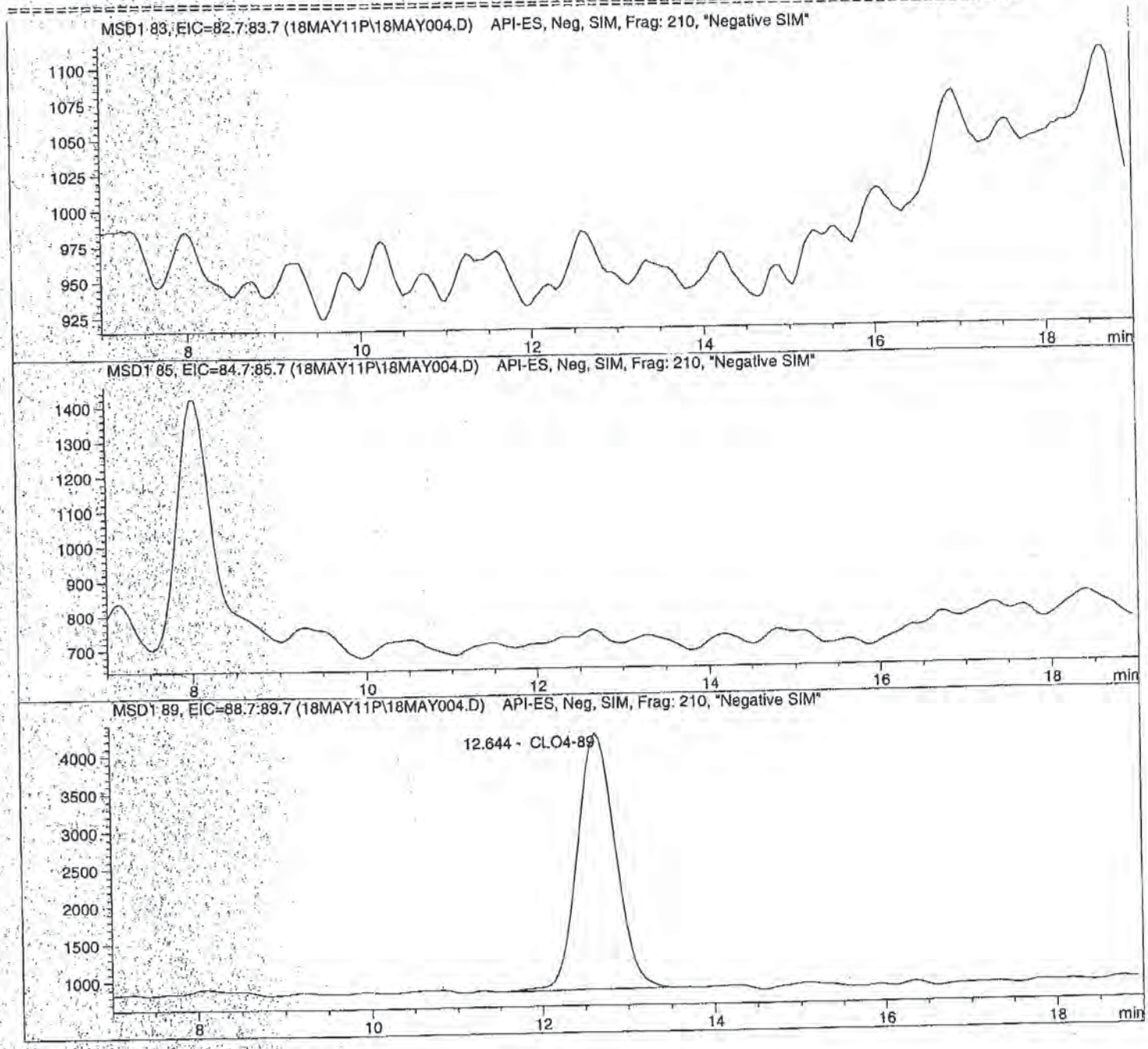
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

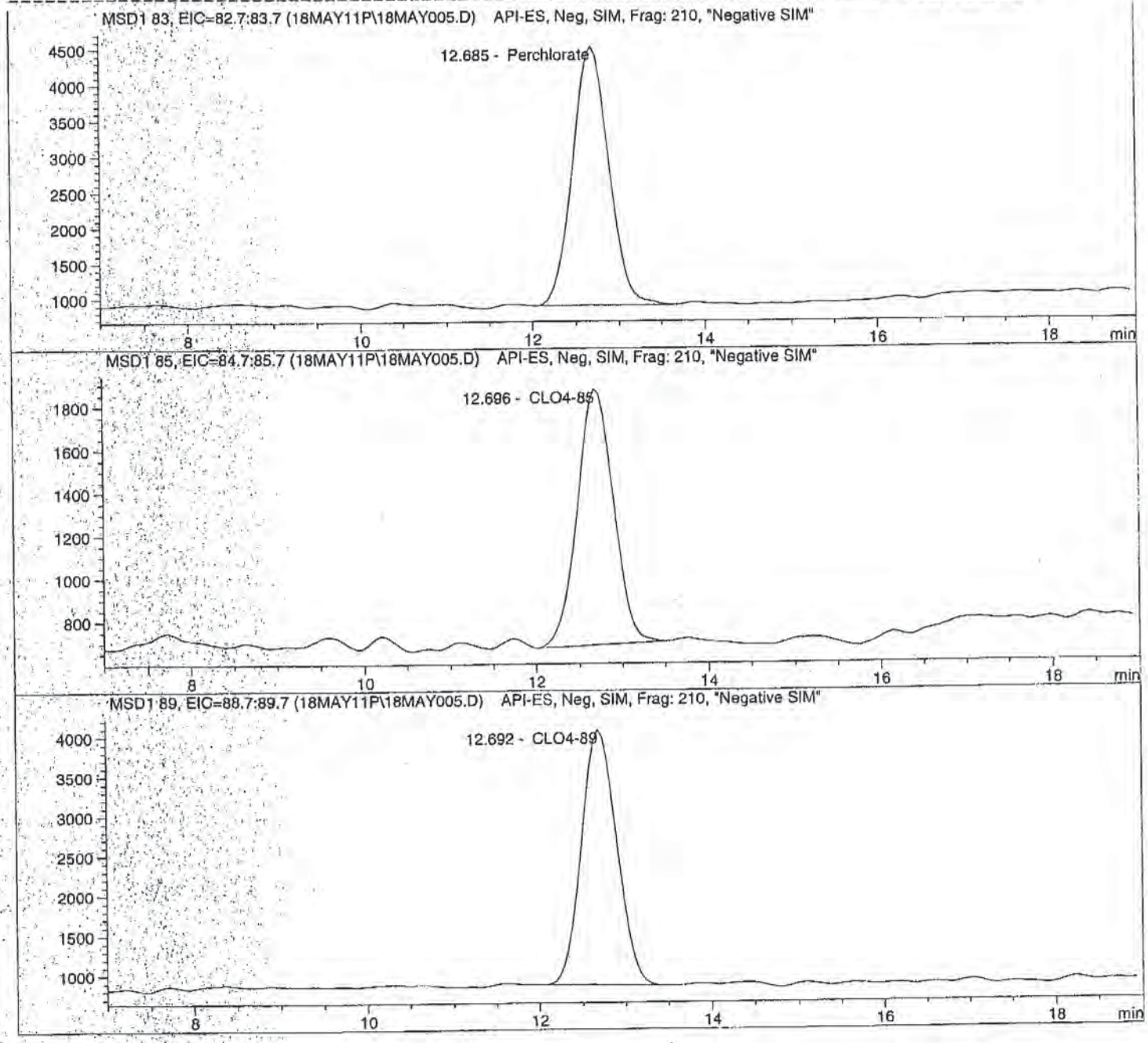
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

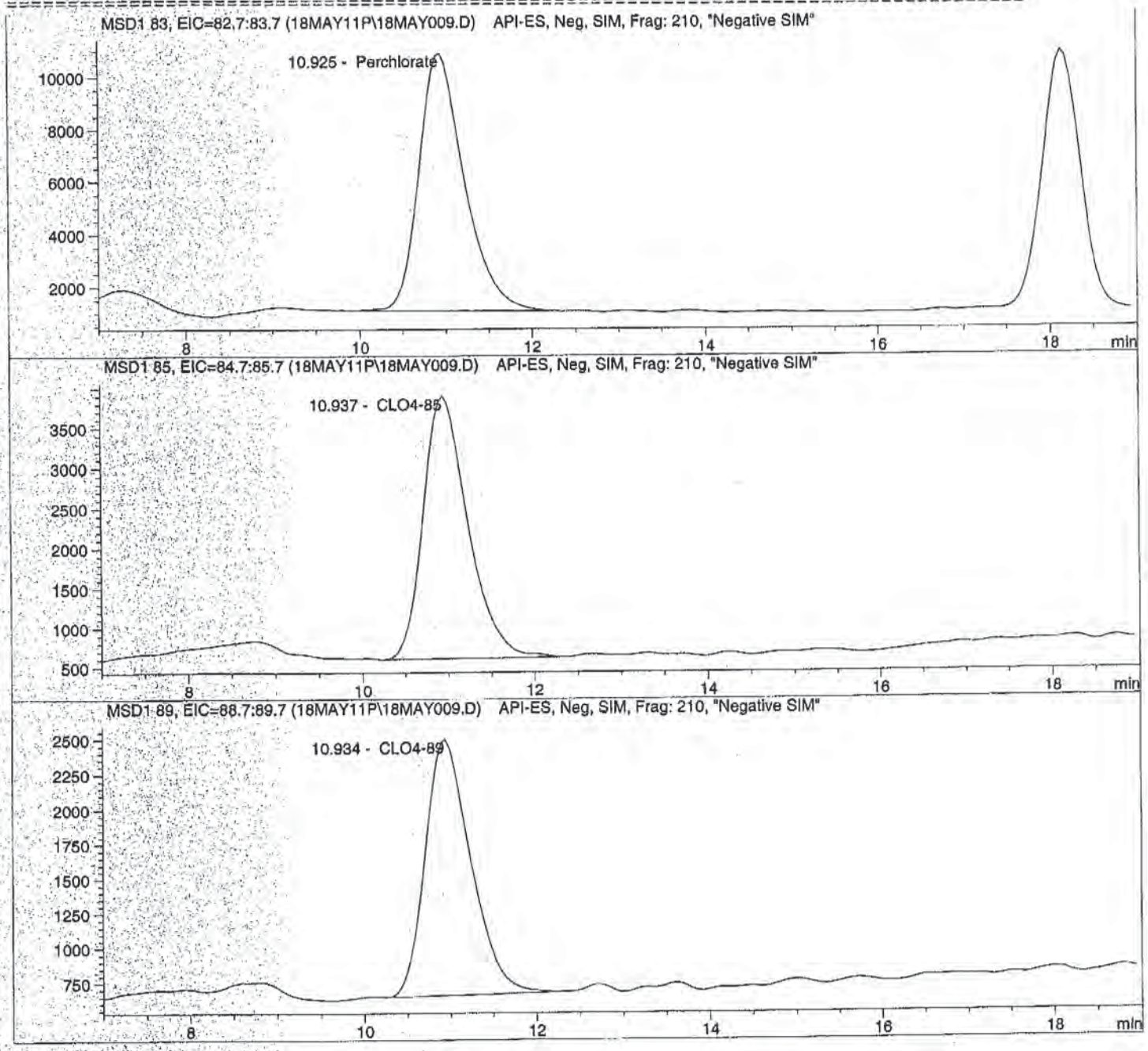
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.925	MM	358555.1	19.5730	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.937	MM	118943.4	21.3257	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.934	MM	67599.3	5.0000	CLO4-89

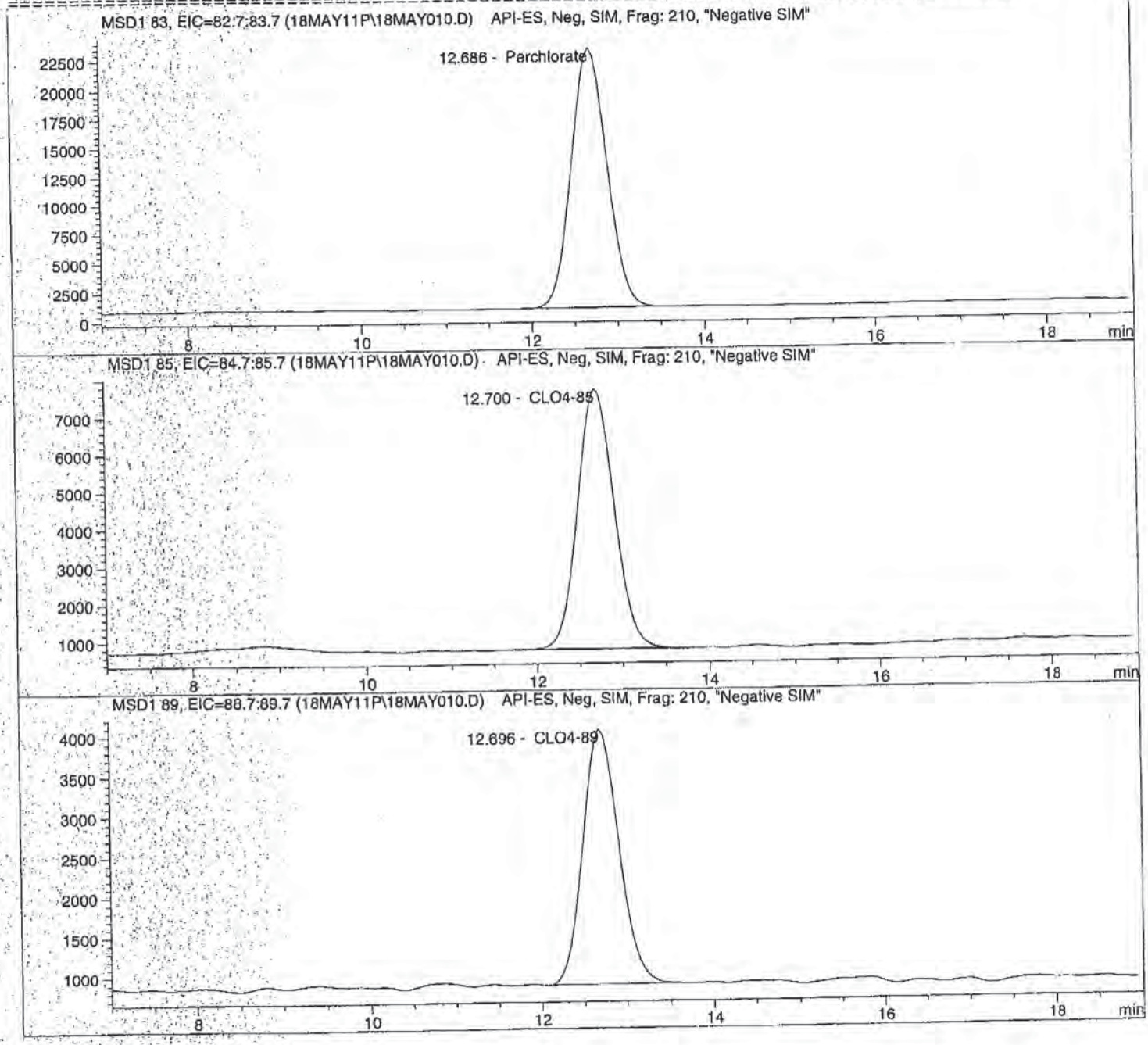
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

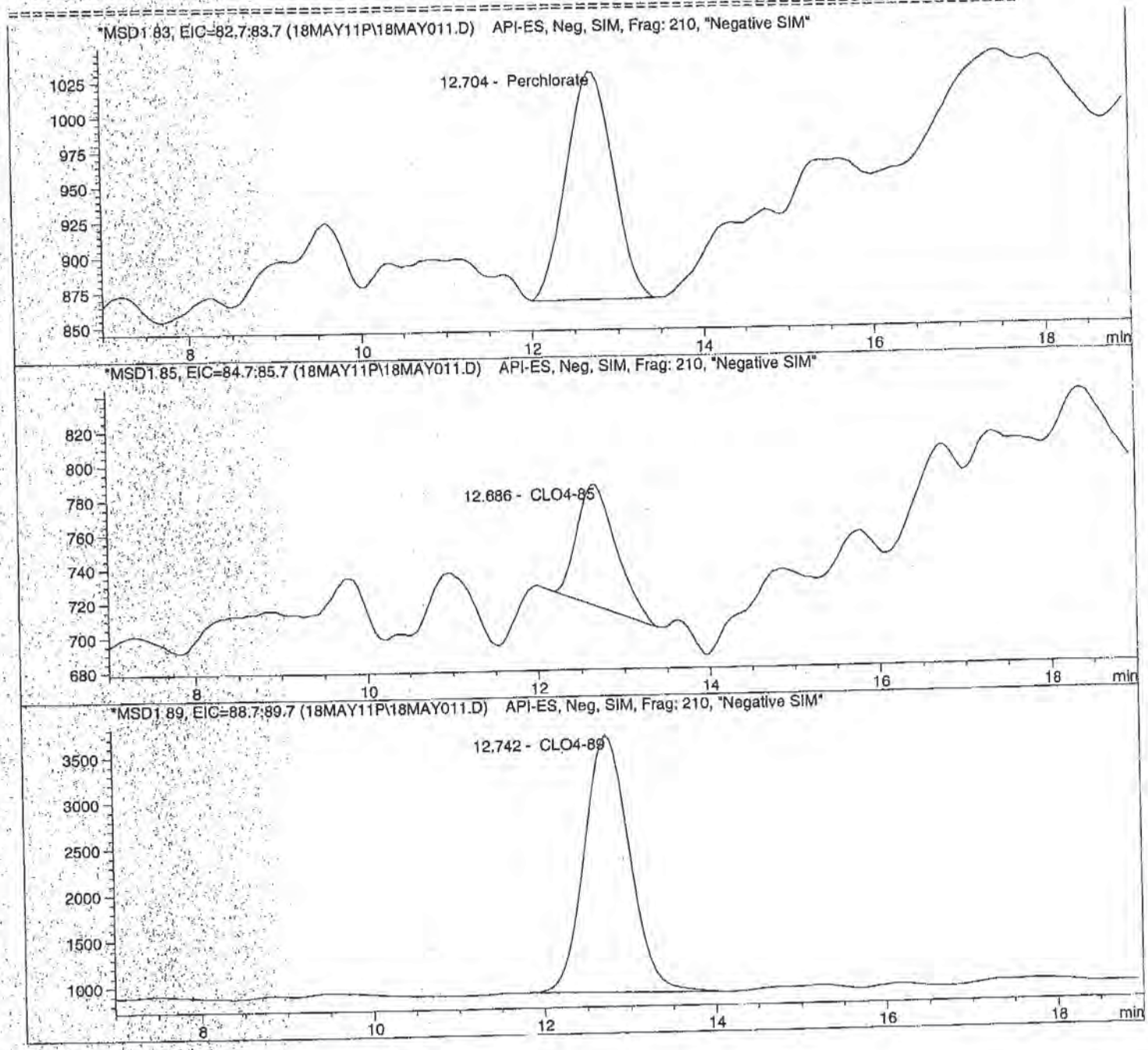
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85217

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.0000
*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.0000
*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.0000
*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.0000
*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.0000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

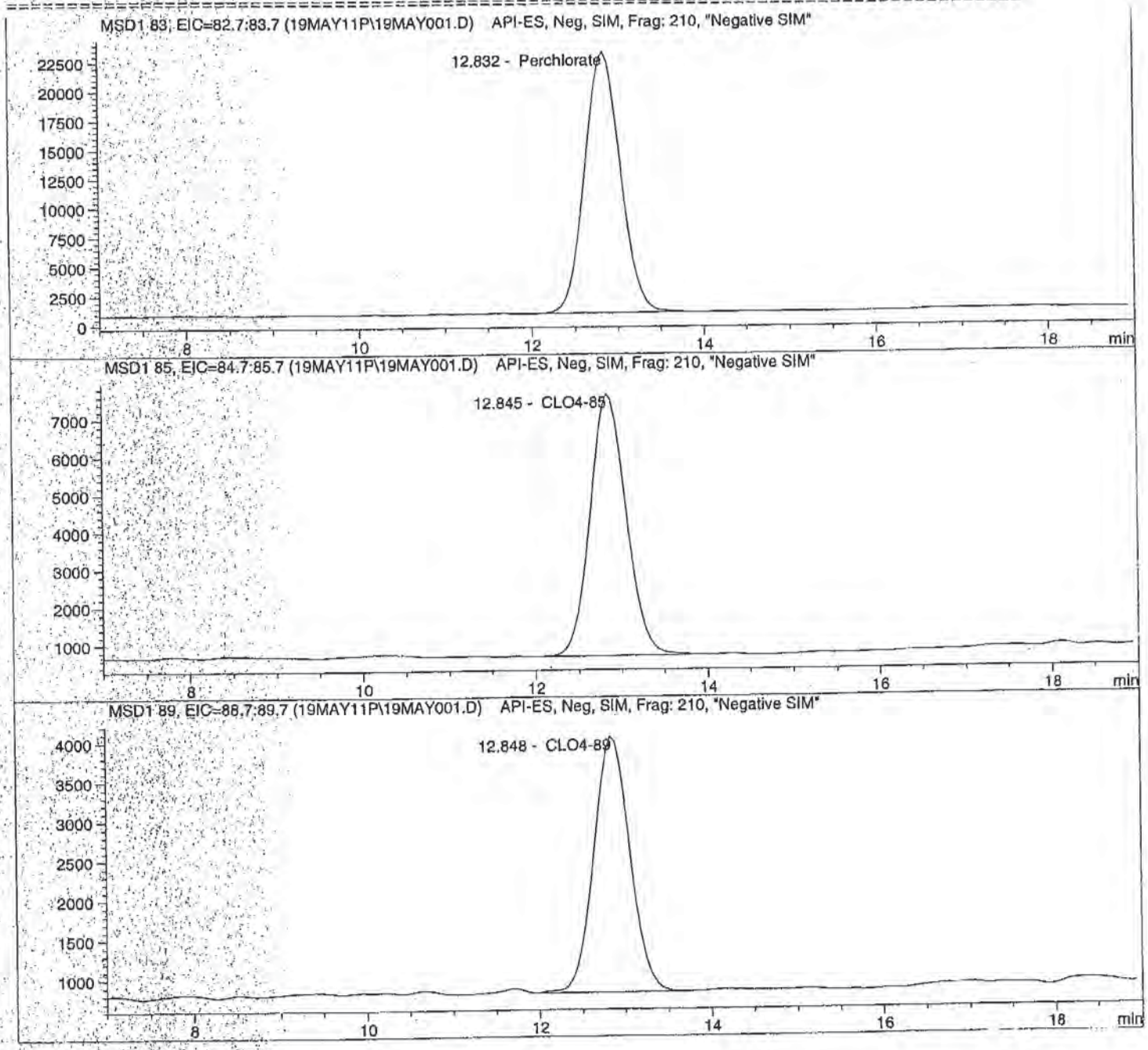
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544 CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001 5X	CLO4-ON	1	Sample		
3	Vial 7	219409 136181S	CLO4-ON	1	Sample		
4	Vial 8	219410 136181D	CLO4-ON	1	Sample		
5	Vial 1	219545 CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

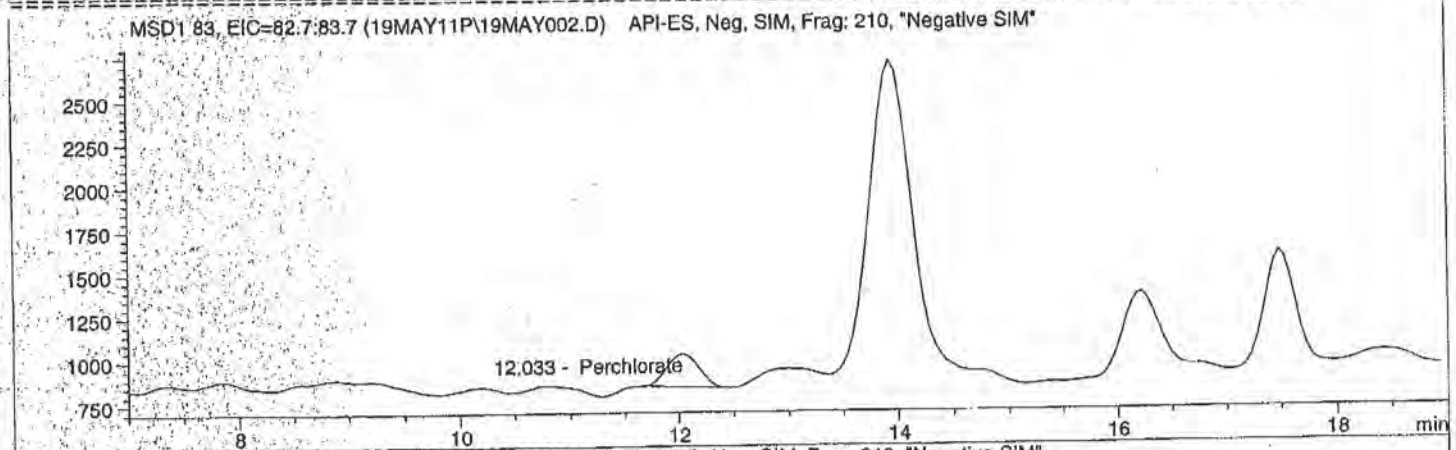
*** End of Report ***

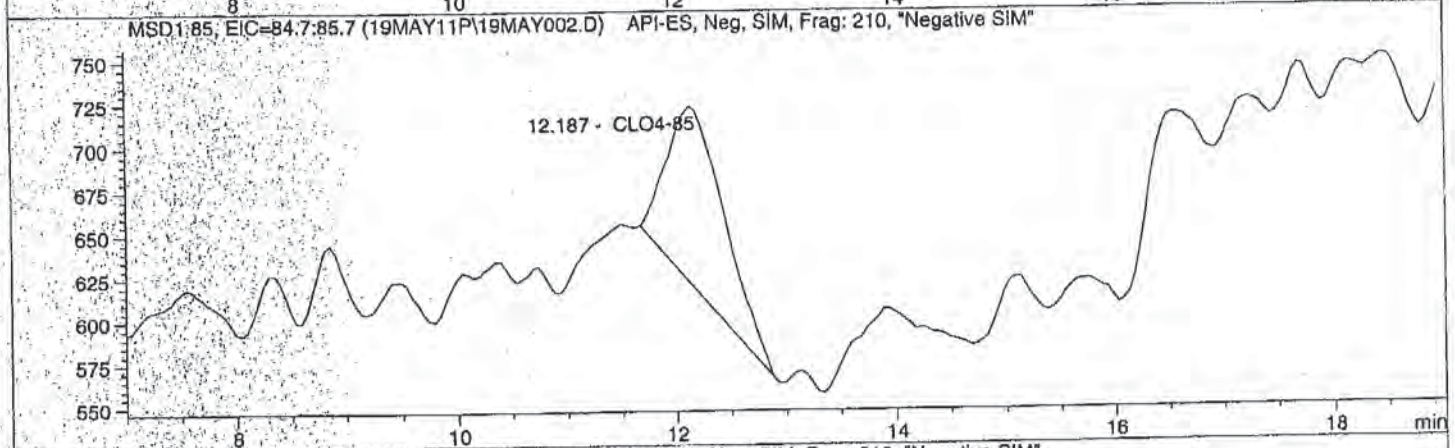
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

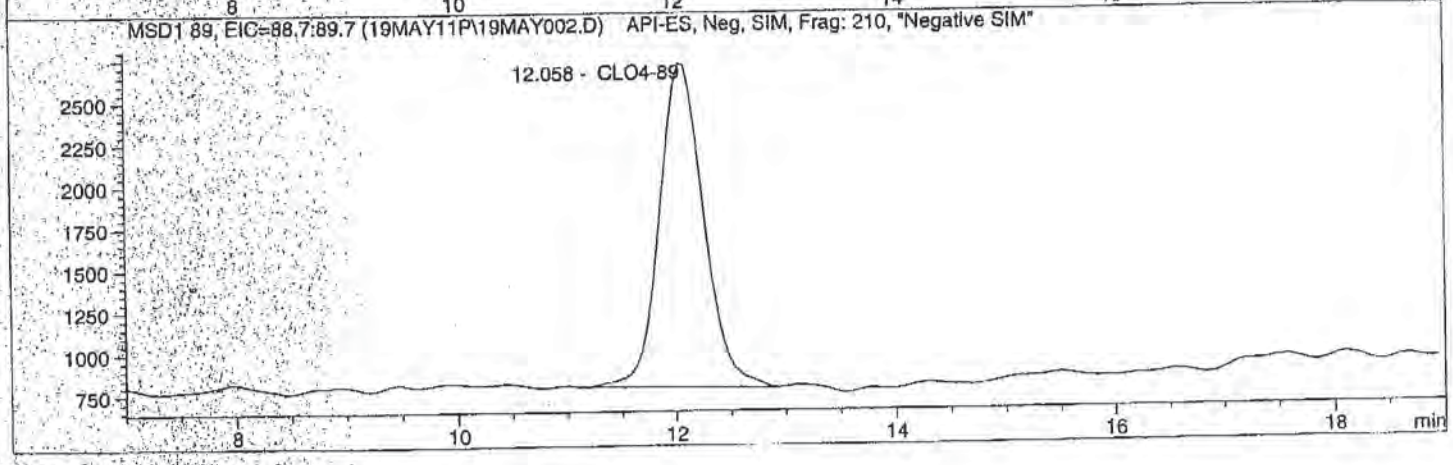
Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

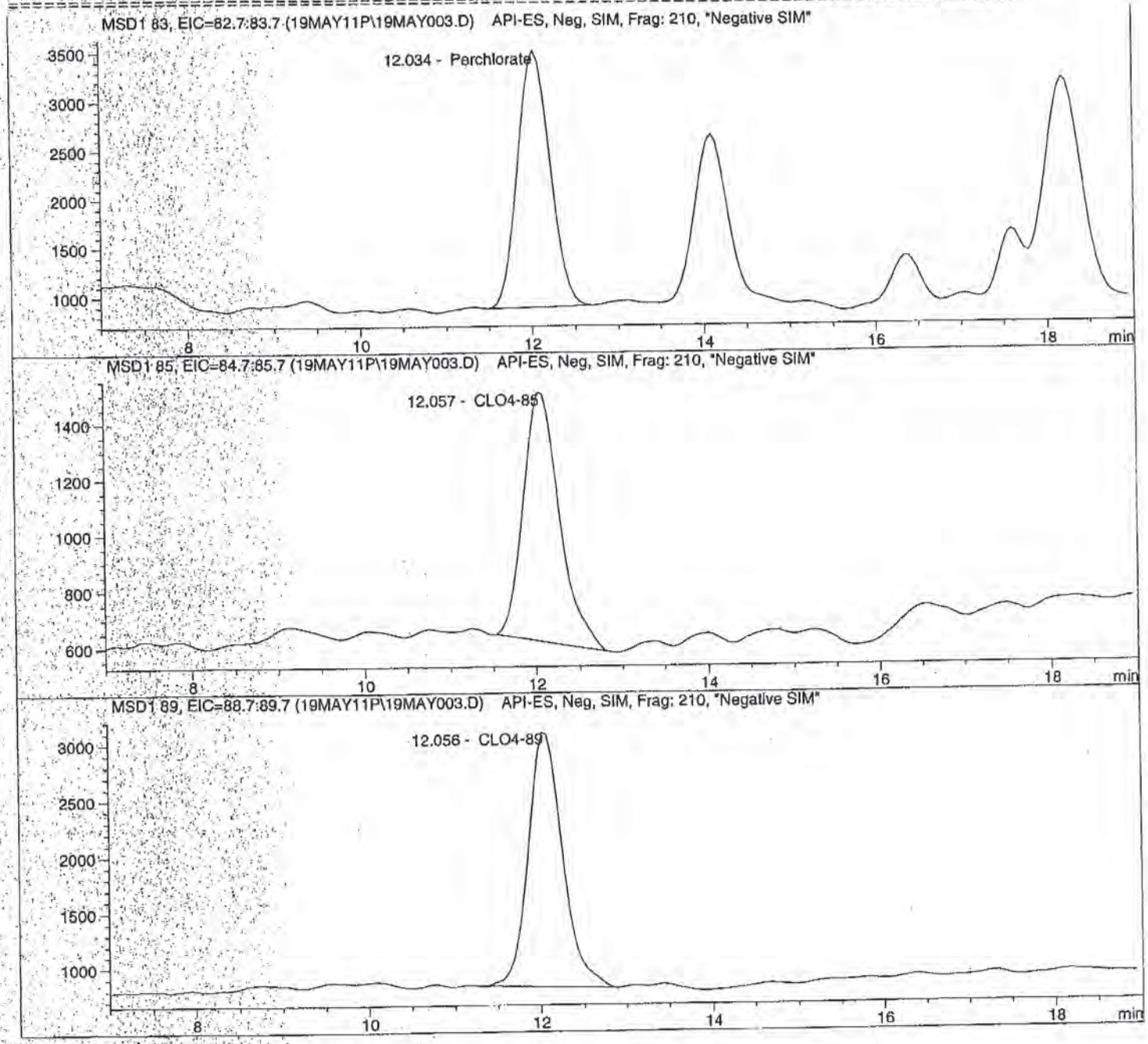
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

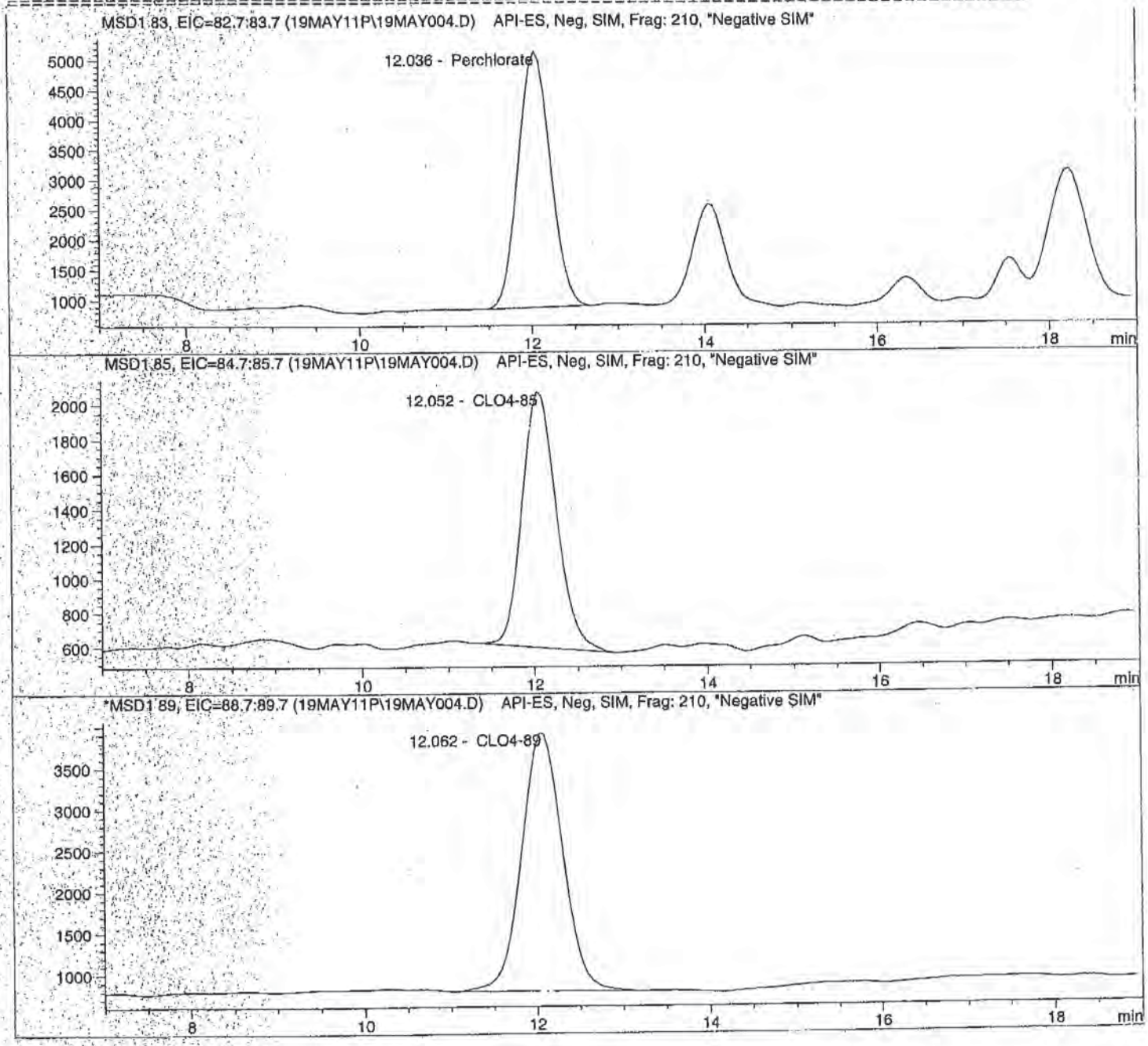
RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

*** End of Report ***

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

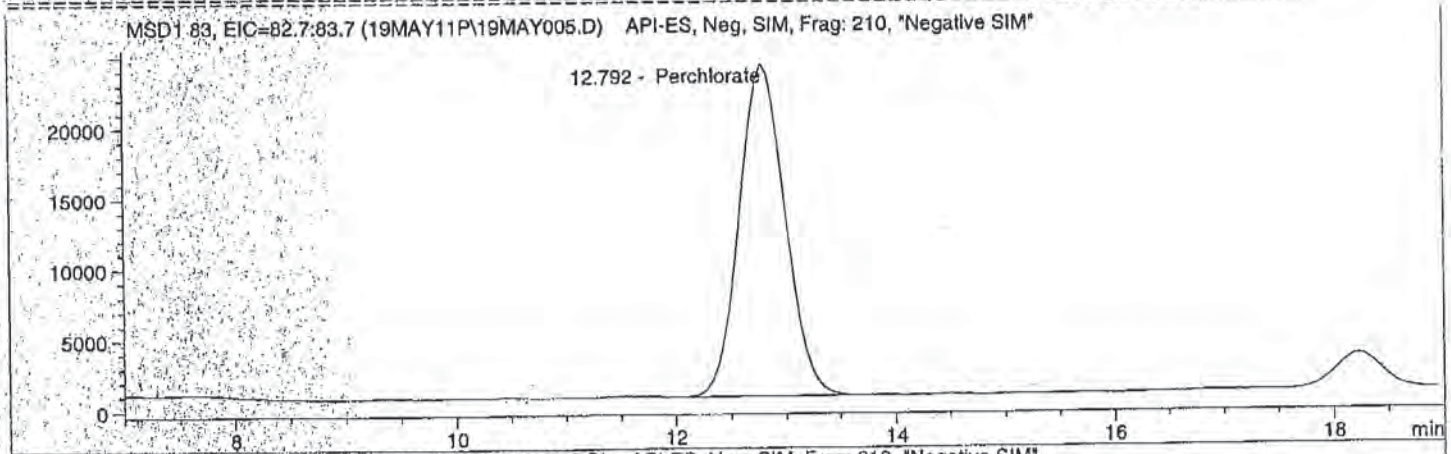
*** End of Report ***

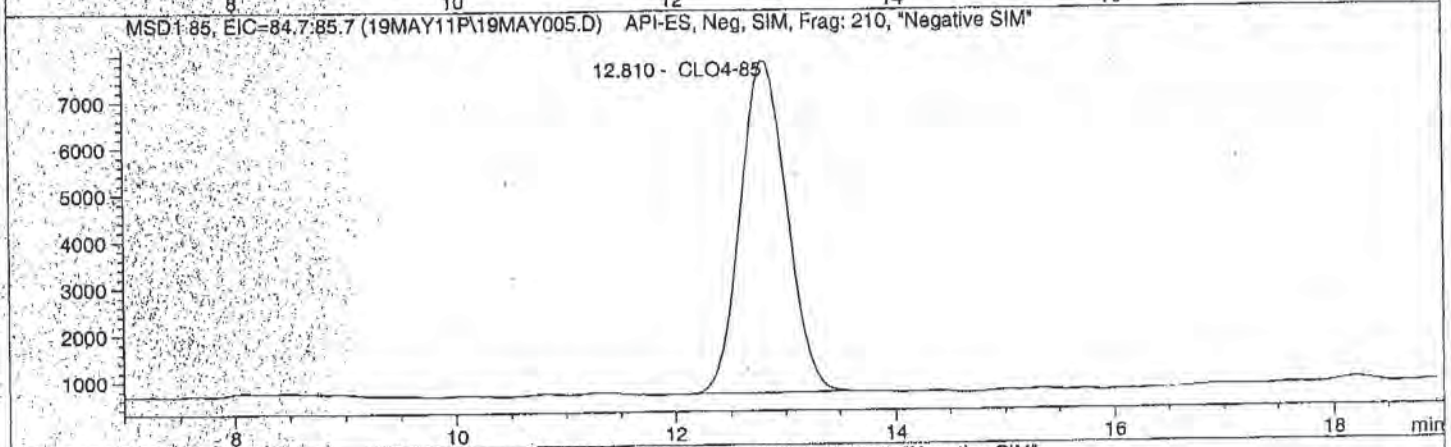
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

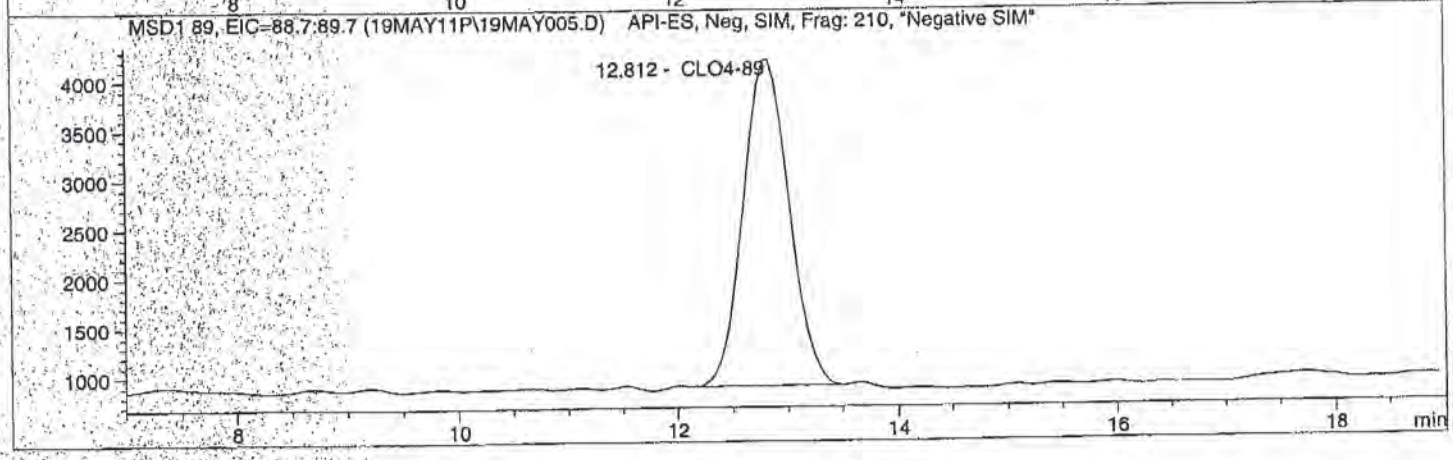
Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5		1	Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5		1	CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
Time Window : From 10.107 min To 18.107 min
Curve Type : Quadratic
Origin : Forced
Calibration Level Weights:/
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006

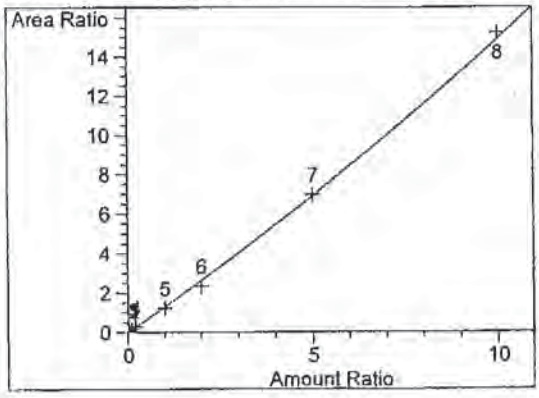
Compound: CLO4-89
Time Window : From 10.065 min To 18.065 min
Curve Type : Linear
Origin : Included
Calibration Level Weights:/
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1

Compound: CLO4-85
Time Window : From 10.121 min To 18.121 min
Curve Type : Quadratic
Origin : Ignored
Calibration Level Weights:/
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

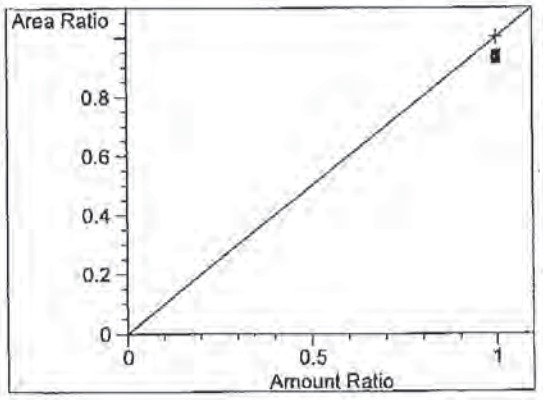
Peak Sum Table

No Entries in table

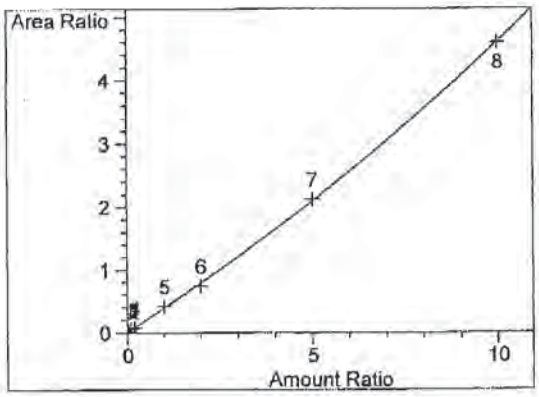
Calibration Curves



Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

Sequence Table:

Method and Injection Info Part:

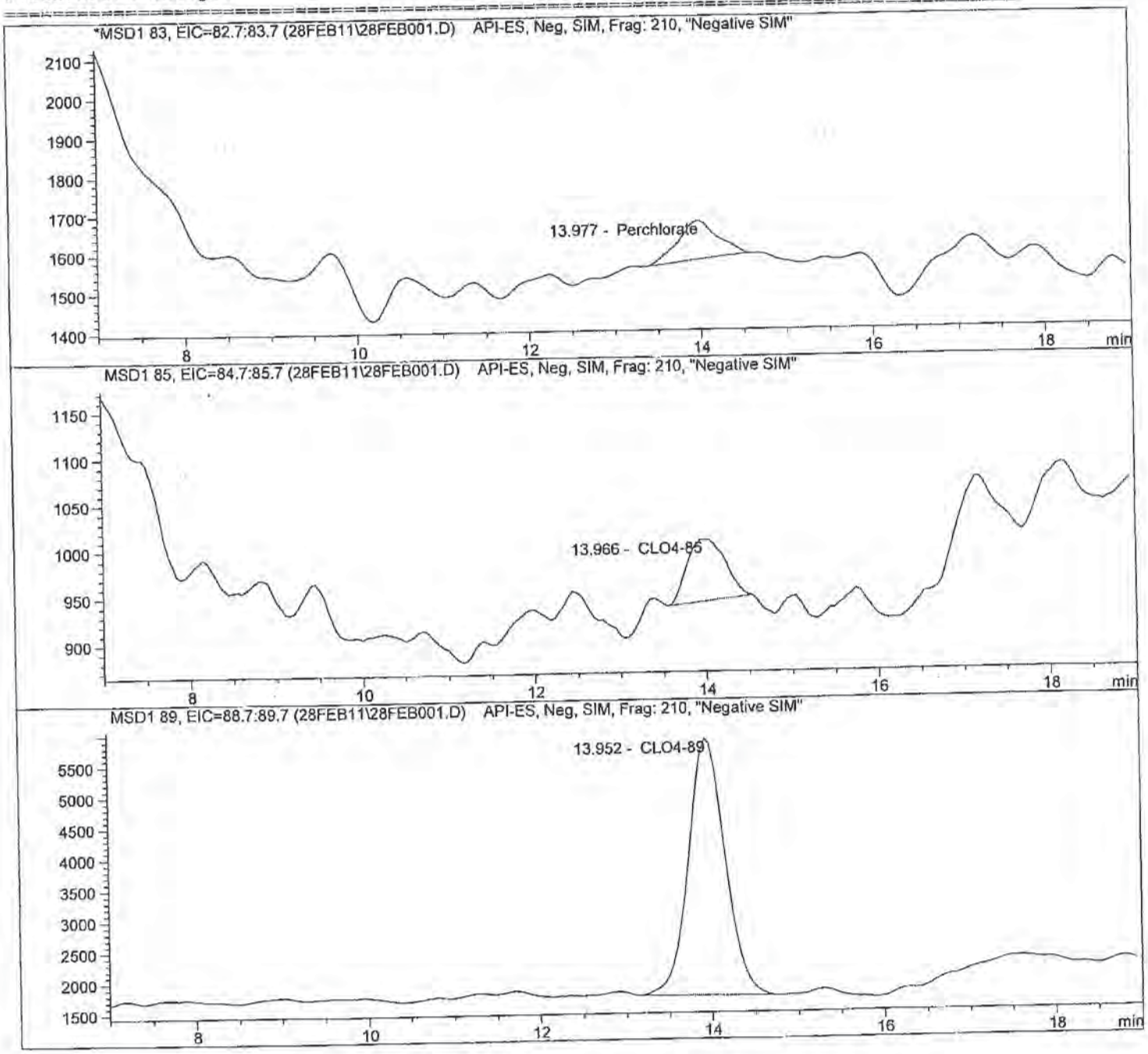
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

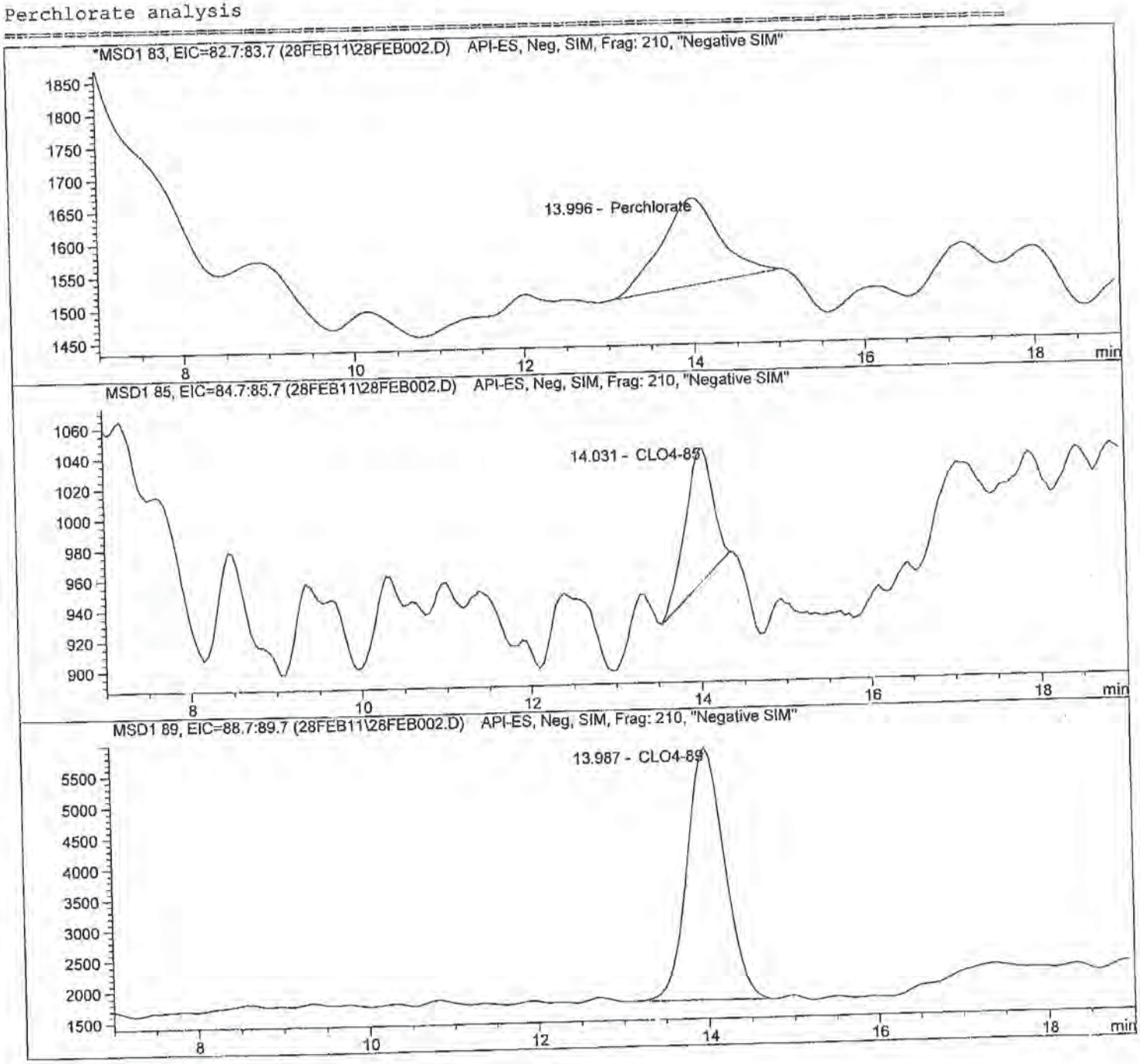
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

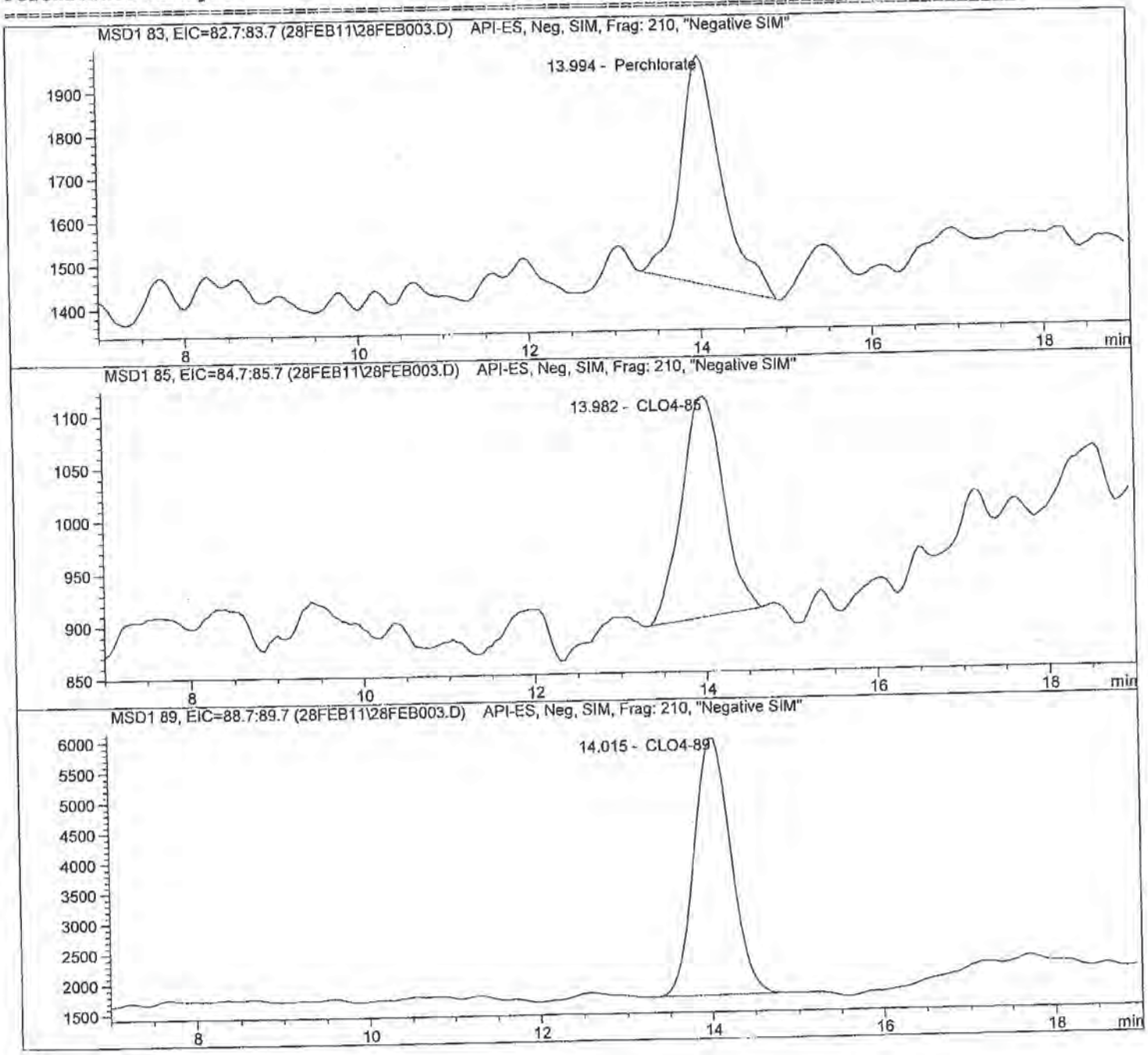
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

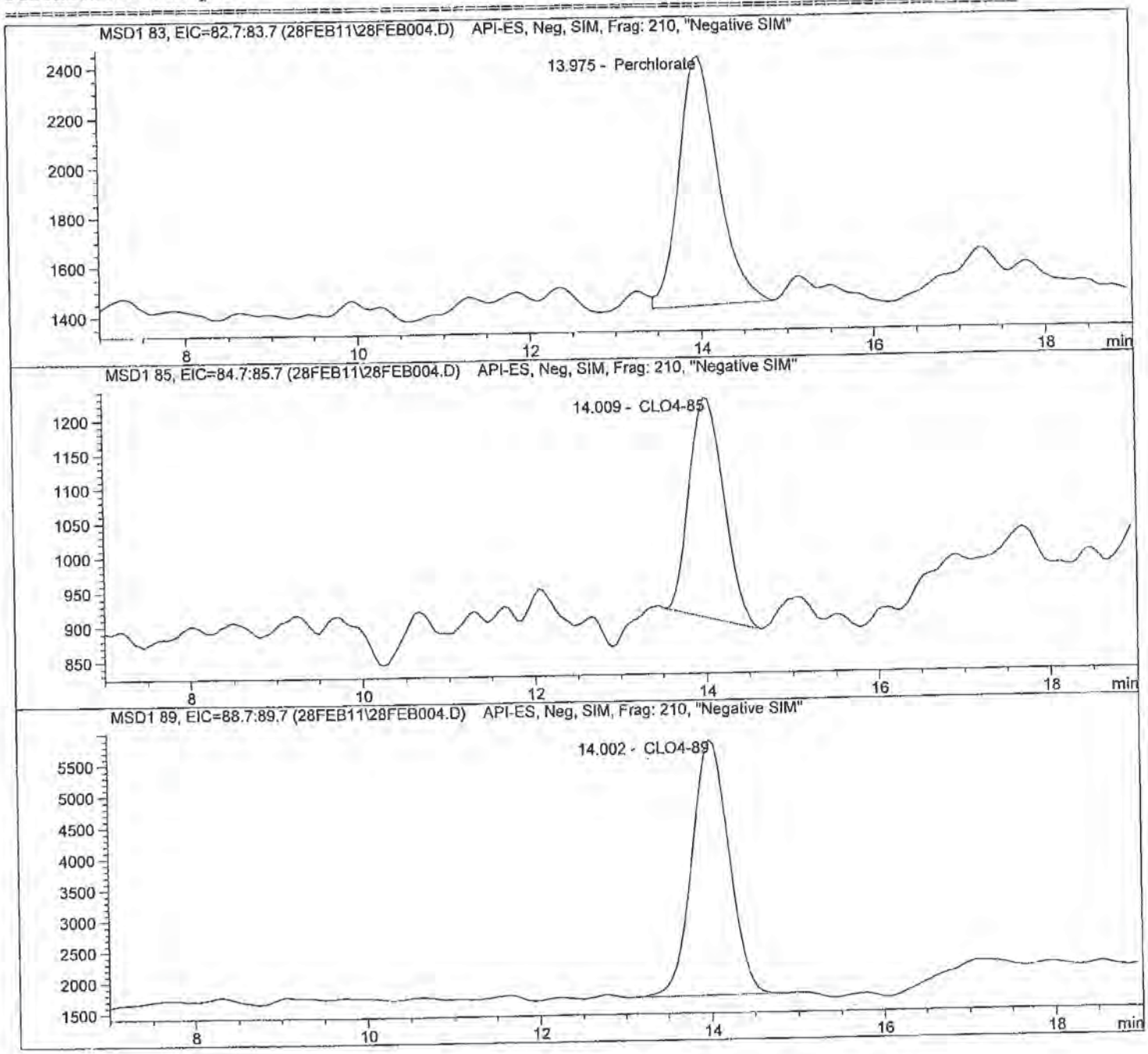
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

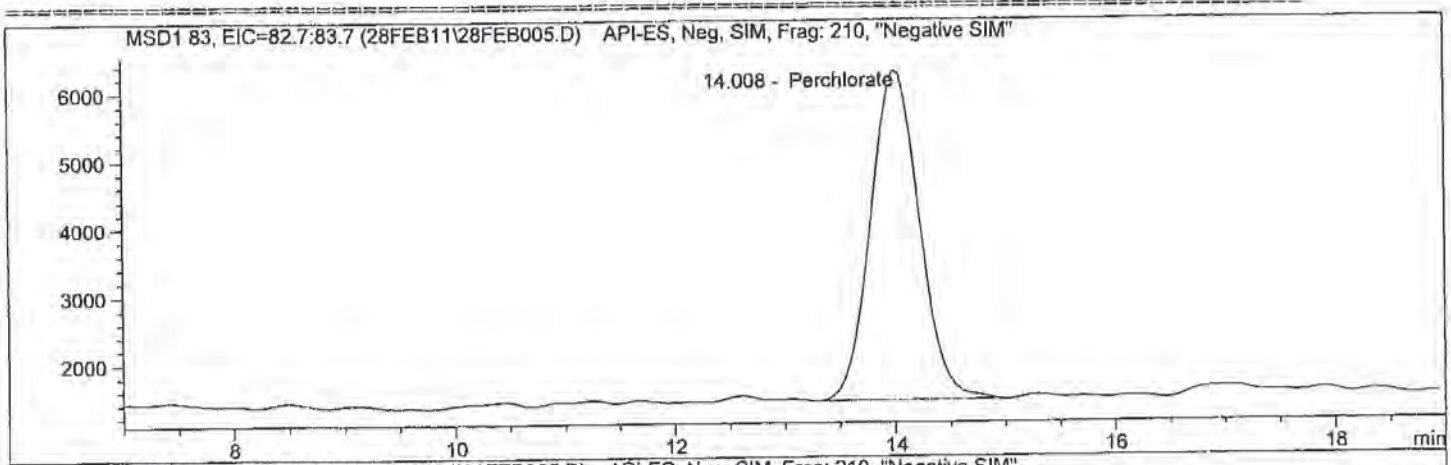
*** End of Report ***

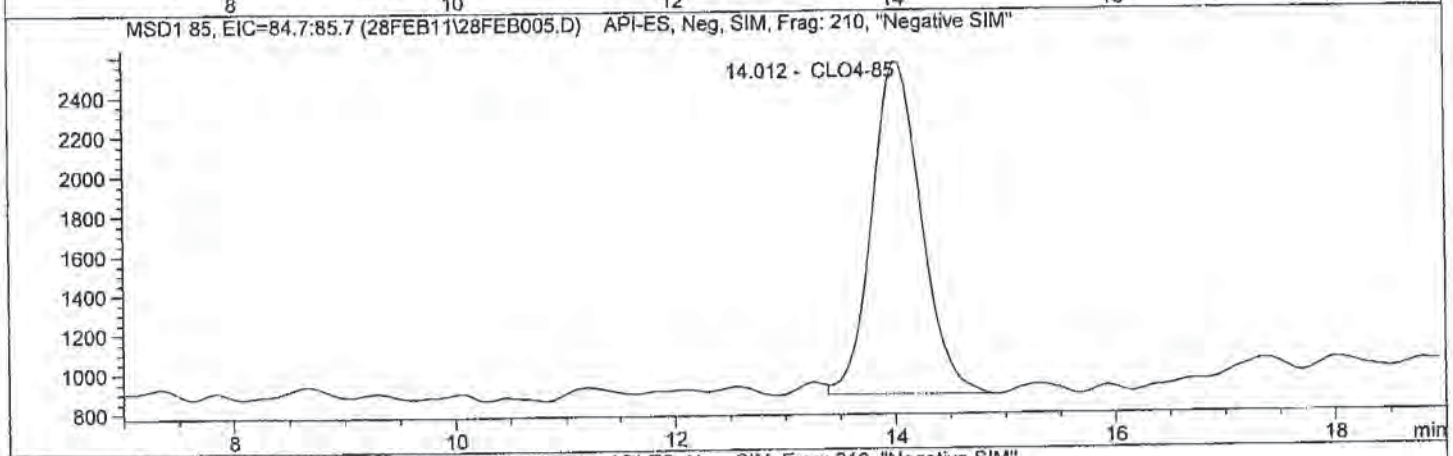
Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

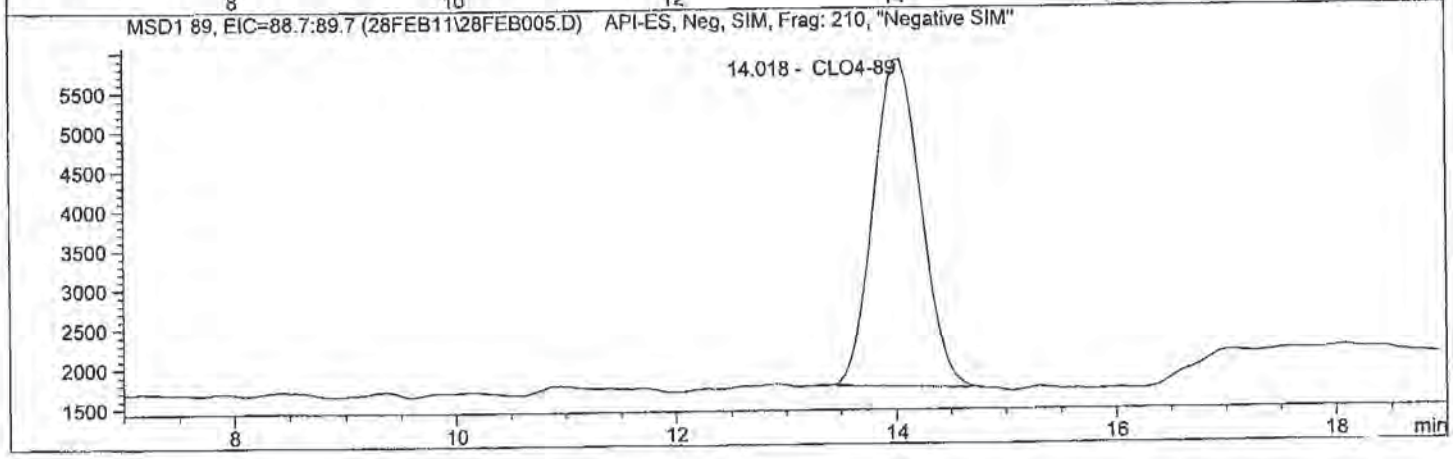
Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

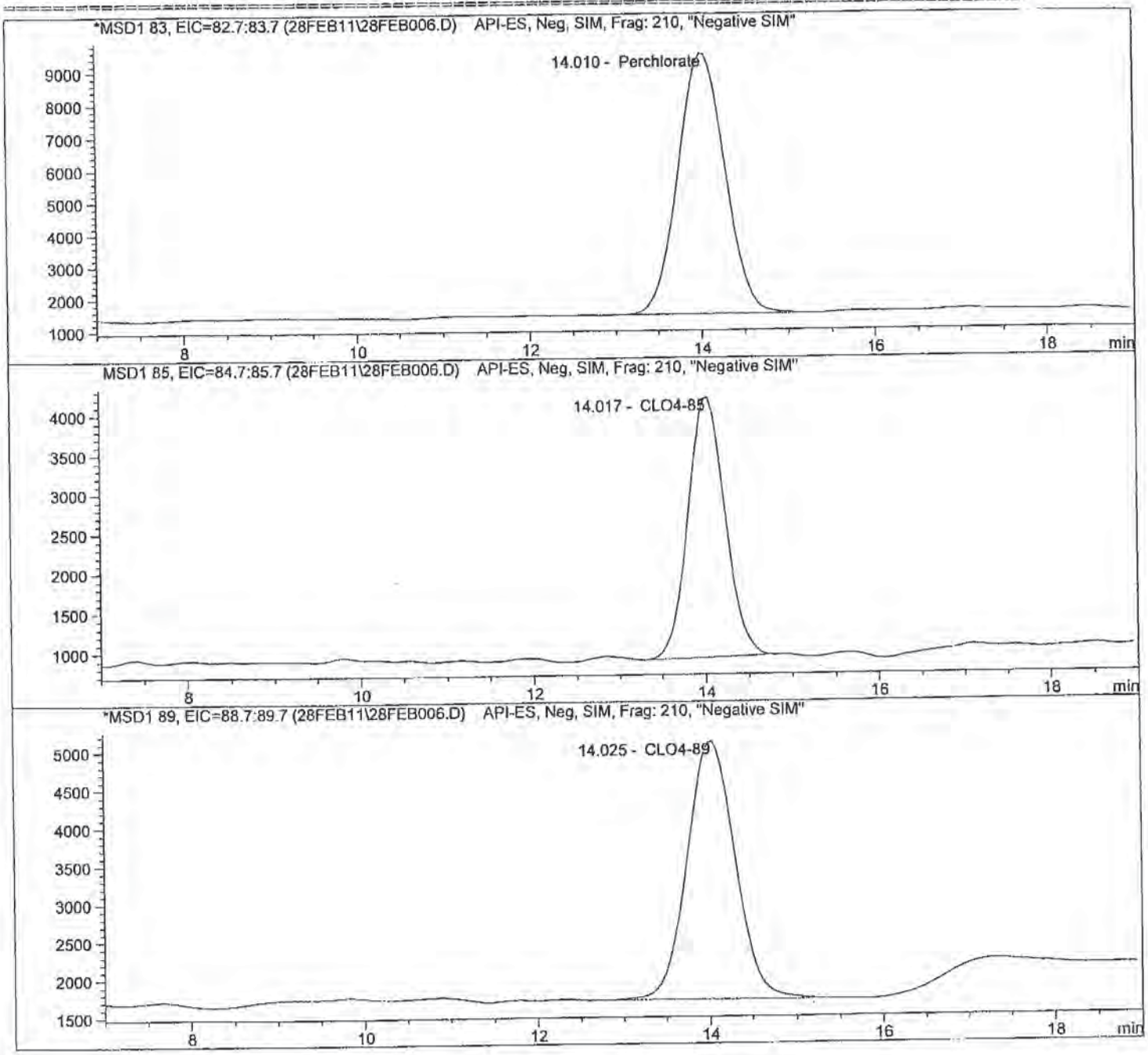
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

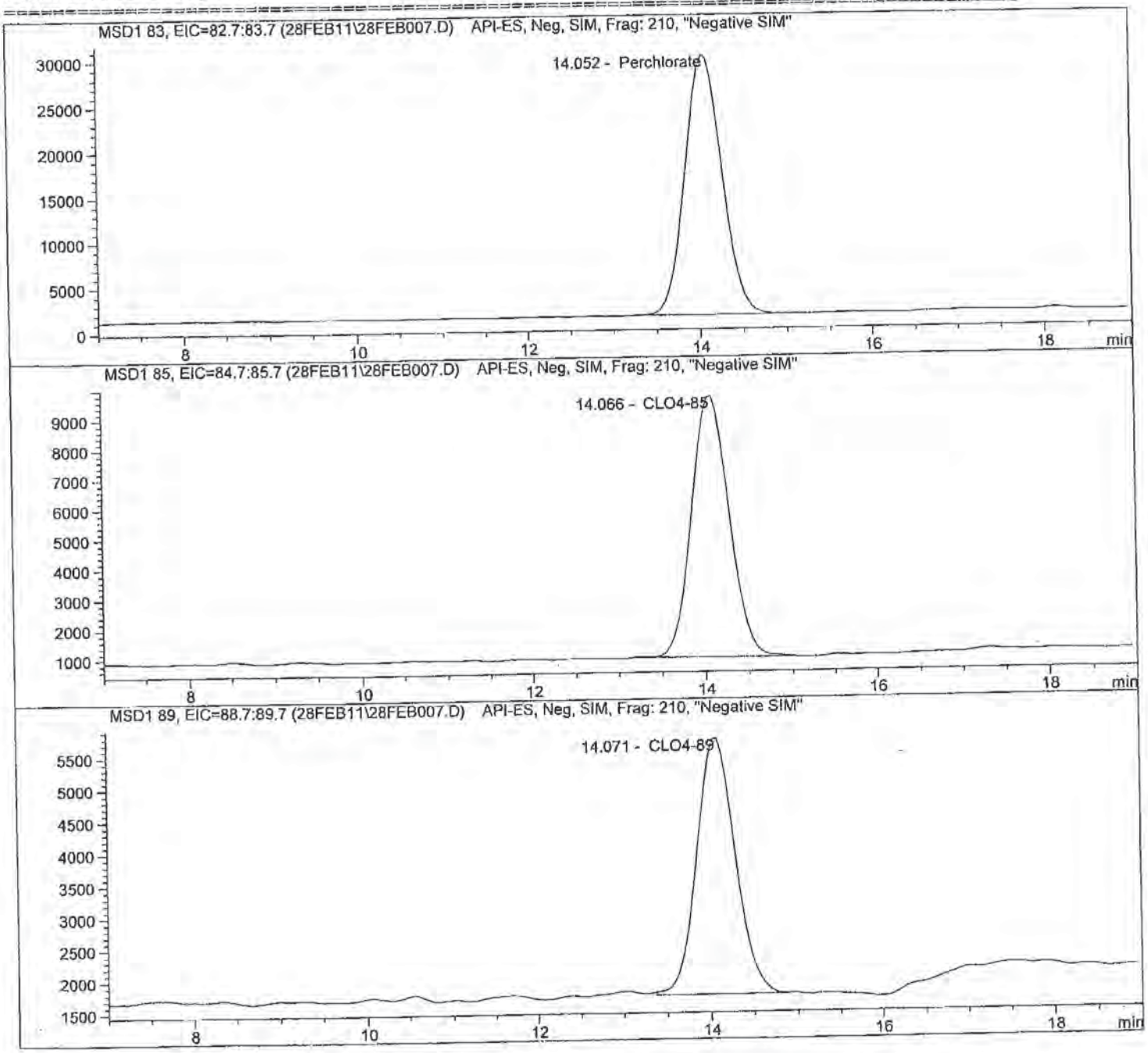
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

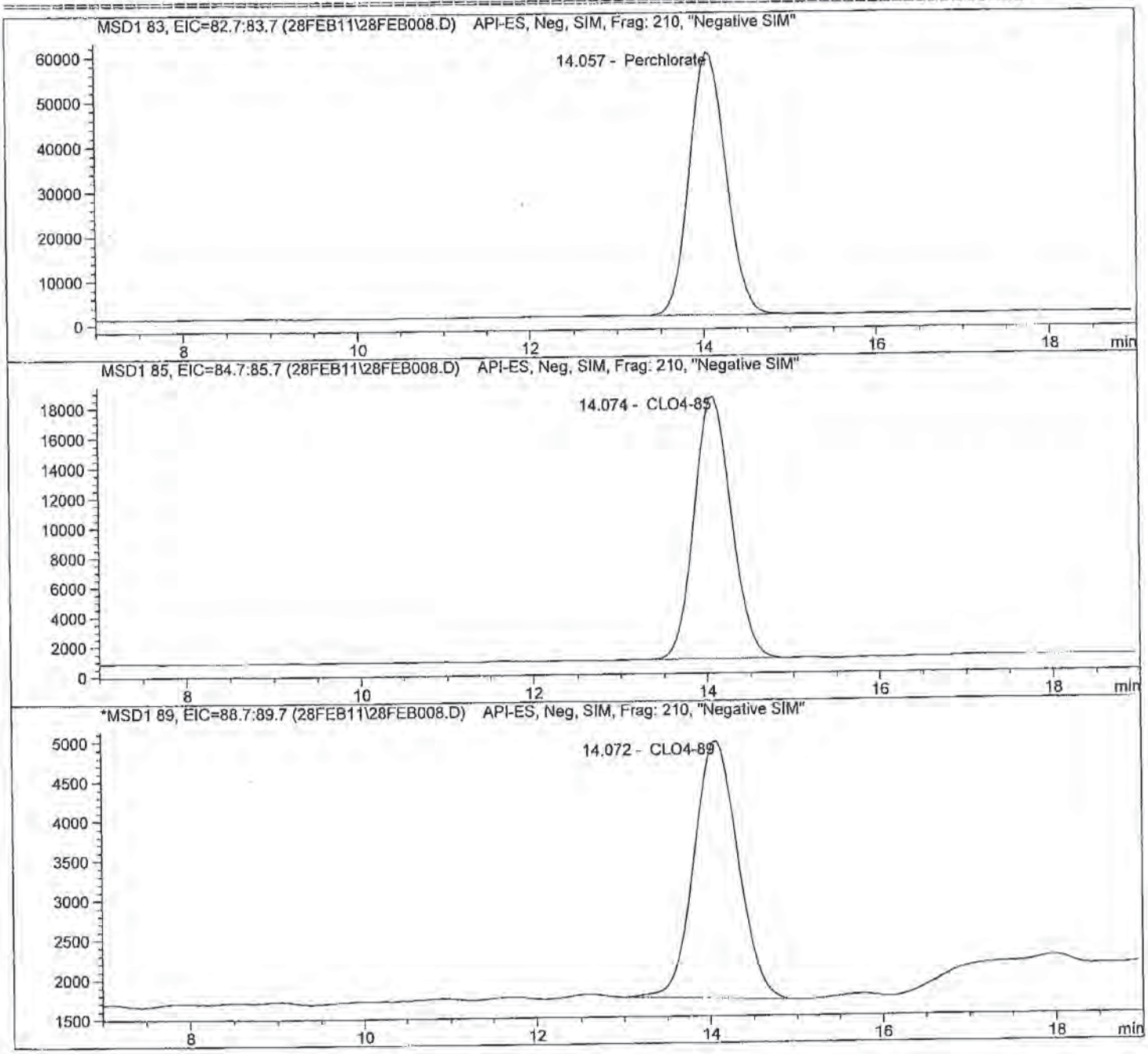
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

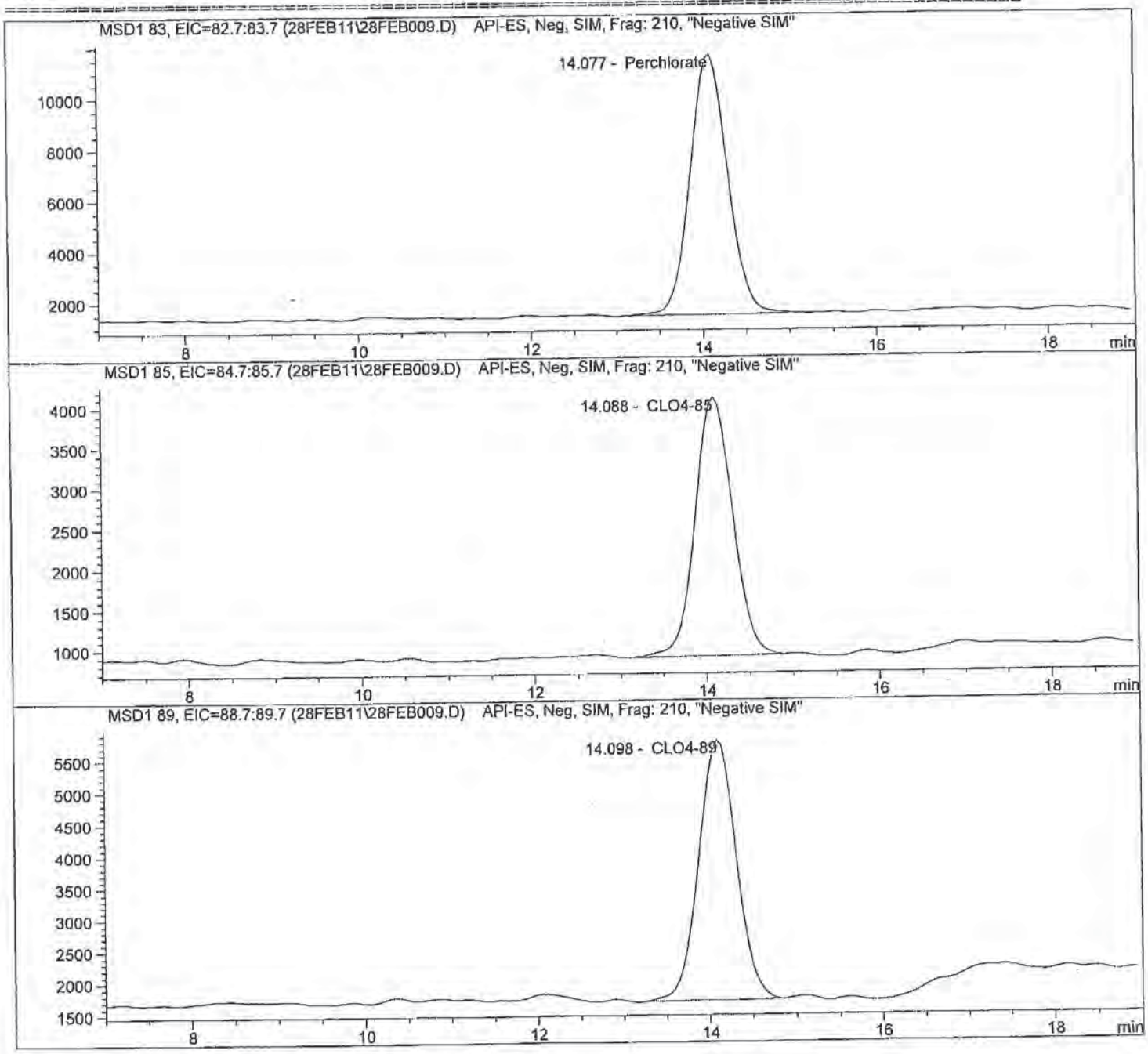
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F86441

Sampling Date: 09/28/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **18**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F86441

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F86441-1	09/28/11	10:28	MHBS	09/29/11	AQ	Ground Water	MA02 MW001D
F86441-1F	09/28/11	10:28	MHBS	09/29/11	AQ	Groundwater Filtered	MA02 MW001D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Trinity Analysis & Development Corp	**Job**	F86441
Site:	Melrose Air Force Range, NM	**Report Date**	10/20/2011 11:28:05

1 Sample was collected on 09/28/2011 and was received at Accutest SE on 09/29/2011 properly preserved, at 2.6 Deg. C and intact. The Sample received an Accutest job number of F86441. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VZ2

All samples were analyzed within the recommended method holding time.

Sample(s) F86441-1MS, F86441-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Bromoform, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Bromoform, cis-1,3-Dichloropropene, Styrene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Styrene is outside control limits for sample F86441-1MSD. Probable cause due to sample non-homogeneity.

F86441-1 for Acetone: ICV outside of control limits.

Extractables by GC by Method SW846 8330A

Matrix: AQ **Batch ID:** OP38919

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86582-1MS, F86582-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for o-Nitrotoluene is outside control limits.

Matrix Spike Recovery(s) for 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene, are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,3,5-Trinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene are outside control limits. Probable cause due to matrix interference.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, 2,4,6-Trinitrotoluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for HMX, Tetryl are outside control limits for sample OP38919-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP38919-MS, OP38919-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP38919-MS for 3,4-Dinitrotoluene: Outside control limits due to dilution.

OP38919-MSD for 3,4-Dinitrotoluene: Outside control limits due to dilution.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86391-1MS, F86391-1MSD, F86391-1PS, F86391-1SDL, F86391-1DUP were used as the QC samples for metals.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

RPD(s) for Duplicate for Arsenic is outside control limits for sample MP21456-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Chromium, Iron, Sodium are outside control limits for sample MP21456-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP21456-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP21488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86645-15MS, F86645-15MSD, F86645-15SDL, F86645-22SDL, F86645-15DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury is outside control limits for sample MP21488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury is outside control limits for sample MP21488-SDL2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP17827

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP, F86429-12MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

Matrix Spike Recovery(s) for Nitrogen, Nitrite, Sulfate are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Recovery(s) for Nitrogen, Nitrate is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

F86441-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17839

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86417-1DUP, F86417-1MS were used as the QC samples for Cyanide, Total.

Matrix Spike Recovery(s) for Cyanide, Total is outside control limits. Probable cause due to matrix interference.

GP17839-S1 for Cyanide, Total: Spike recovery outside of acceptable QC criteria.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN46685

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86547-3DUP, F86547-3MS, F86547-3MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN46629

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP was used as the QC sample for Solids, Total Dissolved.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN46565

All method blanks for this batch meet method specific criteria.

Sample(s) F86441-1DUP, F86441-1MS were used as the QC samples for Chromium, Hexavalent.

The following samples were run outside of holding time for method SW846 7196A: F86441-1. Sample received near the end of hold time. Analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 20, 2011

Ellen Pampel, Inorganic QA (signature on file)

Thursday, October 20, 2011

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
F86441-1MS	MSVOA	Z63.D	Trichlorofluoromethane
F86441-1MSD	MSVOA	Z64.D	Trichlorofluoromethane
GBB642-CC642	GCSEMI	BB029380.D	2,4,6-Trinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, DNX, m-Nitrotoluene, Nitrobenzene, Nitroglycerine, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl
GBB642-ECC642	GCSEMI	BB029400.D	PETN
GBB642-IC642	GCSEMI	BB029372.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, PETN, Tetryl
GBB642-IC642	GCSEMI	BB029373.D	2,6-Dinitrotoluene, m-Nitrotoluene
GBB642-ICV642	GCSEMI	BB029379.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline, MNX, Nitrobenzene, RDX
GBB648-CC642	GCSEMI	BB029577.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline
GBB650-CC642	GCSEMI	BB029594.D	Tetryl
GBB650-CC642	GCSEMI	BB029604.D	Tetryl
GBB651-CC642	GCSEMI	BB029650.D	4-amino-2,6-Dinitrotoluene, Tetryl
GBB653-CC642	GCSEMI	BB029752.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline
GBB653-CC642	GCSEMI	BB029771.D	Tetryl
GBB653-ECC642	GCSEMI	BB029781.D	Tetryl
GBB656-CC642	GCSEMI	BB029856.D	m-Nitrotoluene
GBB656-CC642	GCSEMI	BB029871.D	2,4,6-Trinitrotoluene, Tetryl
GBB656-ECC642	GCSEMI	BB029882.D	m-Nitrotoluene, p-Nitrotoluene, PETN
GGG1796-CC1796	GCSEMI	GG045889.D	3,4-Dinitrotoluene, 3,5-Dinitroaniline, DNX, HMX, Nitroglycerine, o-Nitrotoluene, PETN, TNX
GGG1796-CC1796	GCSEMI	GG045899.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ECC1796	GCSEMI	GG045911.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045881.D	3,5-Dinitroaniline, DNX, o-Nitrotoluene, p-Nitrotoluene, PETN
GGG1796-IC1796	GCSEMI	GG045882.D	3,5-Dinitroaniline, DNX, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045883.D	3,5-Dinitroaniline, o-Nitrotoluene, PETN
GGG1796-IC1796	GCSEMI	GG045884.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045885.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045887.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ICC1796	GCSEMI	GG045886.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ICV1796	GCSEMI	GG045888.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045934.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045943.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045955.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045967.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-ECC1796	GCSEMI	GG045978.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046027.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046038.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046050.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-ECC1796	GCSEMI	GG046082.D	3,5-Dinitroaniline, o-Nitrotoluene
OP38919-BS	GCSEMI	GG046078.D	3,5-Dinitroaniline, HMX, o-Nitrotoluene
OP38919-MS	GCSEMI	BB029648.D	HMX, RDX, Tetryl
OP38919-MSD	GCSEMI	BB029649.D	2,4,6-Trinitrotoluene, HMX, RDX, Tetryl
VZ1-IC1	MSVOA	Z05.D	p-Dichlorobenzene, Trichlorofluoromethane
VZ1-IC1	MSVOA	Z06.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z07.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z09.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z10.D	Trichlorofluoromethane
VZ1-ICC1	MSVOA	Z08.D	Trichlorofluoromethane
VZ1-ICV1	MSVOA	Z12.D	Trichlorofluoromethane
VZ2-BS	MSVOA	Z40.D	Methyl ethyl ketone, Trichlorofluoromethane
VZ2-CC1	MSVOA	Z39.D	Trichlorofluoromethane

49 Manual Integrations were found for F86441

Summary of Hits

Job Number: F86441
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 09/28/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F86441-1	**MA02 MW001D**					
Acetone [a]		14.9 J	25	10	ug/l	SW846 8260B
Calcium		113000	1000		ug/l	SW846 6010C
Magnesium		66100	5000		ug/l	SW846 6010C
Manganese		221	15		ug/l	SW846 6010C
Selenium		138	10		ug/l	SW846 6010C
Sodium		1880000	500000		ug/l	SW846 6010C
Zinc		280	20		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		139	5.0		mg/l	SM19 2320B
Chloride		1940	100		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		17.9	5.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		3770	1000		mg/l	SM19 2540C
Sulfate		1730	100		mg/l	EPA 300/SW846 9056A
F86441-1F	**MA02 MW001D**					
Calcium		107000	1000		ug/l	SW846 6010C
Magnesium		63300	5000		ug/l	SW846 6010C
Manganese		182	15		ug/l	SW846 6010C
Selenium		136	10		ug/l	SW846 6010C
Sodium		1780000	500000		ug/l	SW846 6010C
Zinc		265	20		ug/l	SW846 6010C

(a) ICV outside of control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z51.D	1	10/12/11	KW	n/a	n/a	VZ2
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	14.9	25	10	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

(a) ICV outside of control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB029646.D	1	10/06/11	SL	10/05/11	OP38919	GBB651
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.19	0.077	ug/l	
121-82-4	RDX	ND	0.19	0.077	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.19	0.093	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.19	0.077	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.19	0.079	ug/l	
98-95-3	Nitrobenzene	ND	0.19	0.081	ug/l	
88-72-2	o-Nitrotoluene	ND	0.19	0.077	ug/l	
99-08-1	m-Nitrotoluene	ND	0.19	0.077	ug/l	
99-99-0	p-Nitrotoluene	ND	0.19	0.077	ug/l	
479-45-8	Tetryl	ND	0.19	0.077	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.19	0.077	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.19	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	113000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	66100	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	221	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	138	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1880000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	280	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	139	5.0	mg/l	1	10/08/11	GR	SM19 2320B
Chloride	1940	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Chromium, Hexavalent [a]	< 0.010	0.010	mg/l	1	09/29/11 15:00	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	10/05/11 14:42	AR	EPA 335.4/SW 9012B
Nitrogen, Nitrate	17.9	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Nitrogen, Nitrite [b]	< 5.0	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Solids, Total Dissolved	3770	1000	mg/l	10	10/04/11	LE	SM19 2540C
Sulfate	1730	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A

(a) Sample received near the end of hold time. Analyzed as soon as possible.
(b) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1F	**Date Sampled:**	09/28/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	107000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	63300	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	182	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	136	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1780000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	265	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

F86441

Accutest JOB #

PAGE_____OF_____

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name

Address

City State Zip

Project Contact E-mail

Phone#

Sampler(s) Name(s) (Printed)

Project Information

Project Name

Street

City State

Project #

Fax #

Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION: DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
1																

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2 FE	3 FE 9-29-11	0900	4 R Willm 9-29-11 0900
Relinquished by:	**Date Time:**	**Received By:**	**Relinquished by:**	**Date Time:**	**Received By:**
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

5.1

5

F86441: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F86441 CLIENT: trinity PROJECT: Melrose AFB

DATE/TIME RECEIVED: 9-29-11 0900 (MM/DD/YY 24:00) NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8767 0743 1515

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R. Wilson 9-29-11 REVIEWER SIGNATURE/DATE Scott Hill 09/29/11

NF 12/10 receipt confirmation 122910.xls

5.1

5

F86441: Chain of Custody

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ANALYTICAL DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 84

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:
No anomalies or deviations are noted.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SLCMS6850PRCHLT-6850 Perchlorate (Total)	(Dissolved)	LAB USE ONLY
1X	1110004 -01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/3/11

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☒ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 930	4 Reynald Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

9

1110004

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6 =* 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

11

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C
Custody Seals Yes Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

1110004

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.207662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV3

Sequence: 1J28004

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV4

Sequence: 1J28004

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV5

Sequence: 1J28004

Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Data for SW6850
Supporting Raw Data / Logs

Sequence Table:

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 71	SEQ-CAL1				
5	Vial 72	SEQ-CAL2				
6	Vial 73	SEQ-CAL3				
7	Vial 74	SEQ-CAL4				
8	Vial 75	SEQ-CAL5				
9	Vial 76	SEQ-CAL6				
10	Vial 77	SEQ-CAL7				
11	Vial 78	SEQ-CAL8				
12	Vial 79	SEQ-ICV1				
13	Vial 3	SEQ-CCV1				
14	Vial 4	SEQ-LCV1				
15	Vial 5	ICS				
16	Vial 2	Reagent Blank				
17	Vial 2	Reagent Blank				
18	Vial 6	1H24012-BLK1				
19	Vial 7	1H24012-BS1				
20	Vial 8	1108162-35				
21	Vial 9	1108162-36				
22	Vial 10	1108162-37				
23	Vial 11	1108162-38				
24	Vial 12	1108162-39				
25	Vial 13	1108162-40				
26	Vial 14	1108162-41				
27	Vial 15	1108162-42				
28	Vial 16	1108162-43				
29	Vial 17	1108162-46				
30	Vial 2	Reagent Blank				
31	Vial 3	SEQ-CCV2				
32	Vial 4	SEQ-LCV2				
33	Vial 18	1108168-01@20				
34	Vial 19	1108168-02@20				
35	Vial 20	1108168-03@20				
36	Vial 21	1108168-04@20				
37	Vial 22	1108168-05@20				
38	Vial 23	1108168-06@20				
39	Vial 24	1108168-07@20				
40	Vial 25	1108168-08@20				
41	Vial 26	1108168-09@20 – RR 4x None				
42	Vial 27	1108168-10@20 – RR 10X None				
43	Vial 28	1H24012-MS1				
44	Vial 29	1H24012-MSD1				
45	Vial 81	Reagent Blank				
46	Vial 3	SEQ-CCV3				
47	Vial 4	SEQ-LCV3				
48	Vial 5	ICS2				
49	Vial 81	Reagent Blank				
50	Vial 81	Reagent Blank				
51	Vial 30	1H24014-BLK1				

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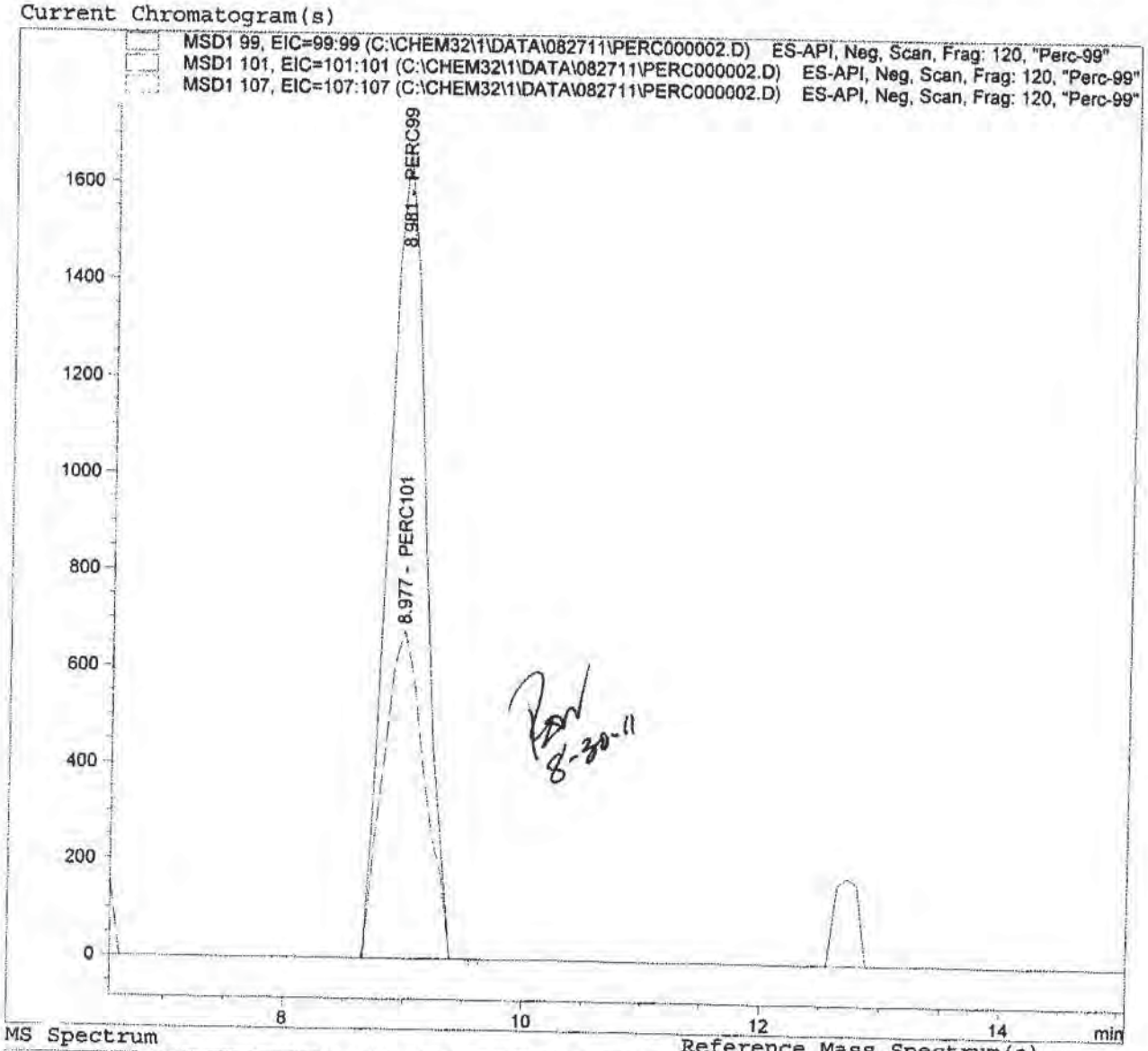
Pow
8-30-11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 31	1H24014-BS1				
53	Vial 32	1108216-01				
54	Vial 33	1108216-02				
55	Vial 34	1108216-03				
56	Vial 35	1108216-04				
57	Vial 36	1108229-01 – RR 2x				
58	Vial 37	1108229-02				
59	Vial 81	Reagent Blank				
60	Vial 38	1H24014-MS1				
61	Vial 81	Reagent Blank				
62	Vial 39	1H24014-MSD1				
63	Vial 82	Reagent Blank				
64	Vial 3	SEQ-CCV4				
65	Vial 4	SEQ-LCV4				

410

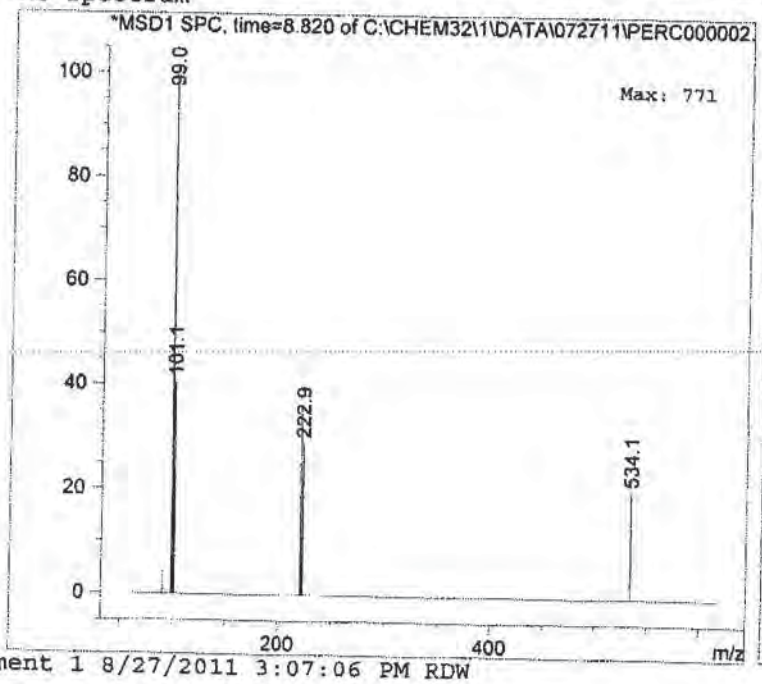
Print of all graphic windows

Current Chromatogram(s)

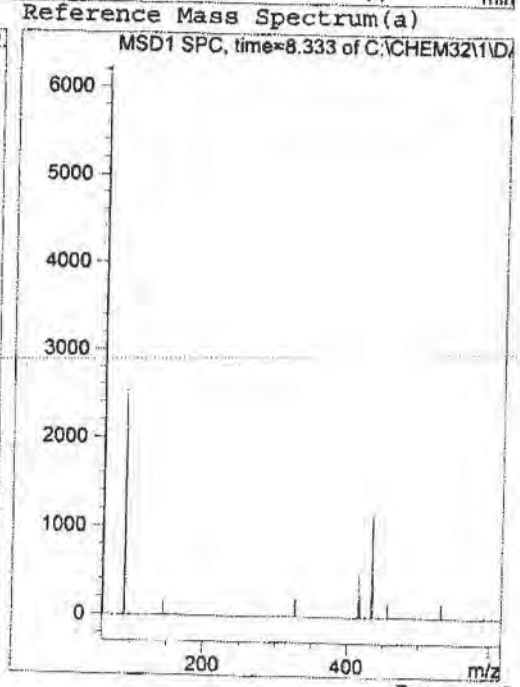


Rod 8-30-11

MS Spectrum



Reference Mass Spectrum(a)

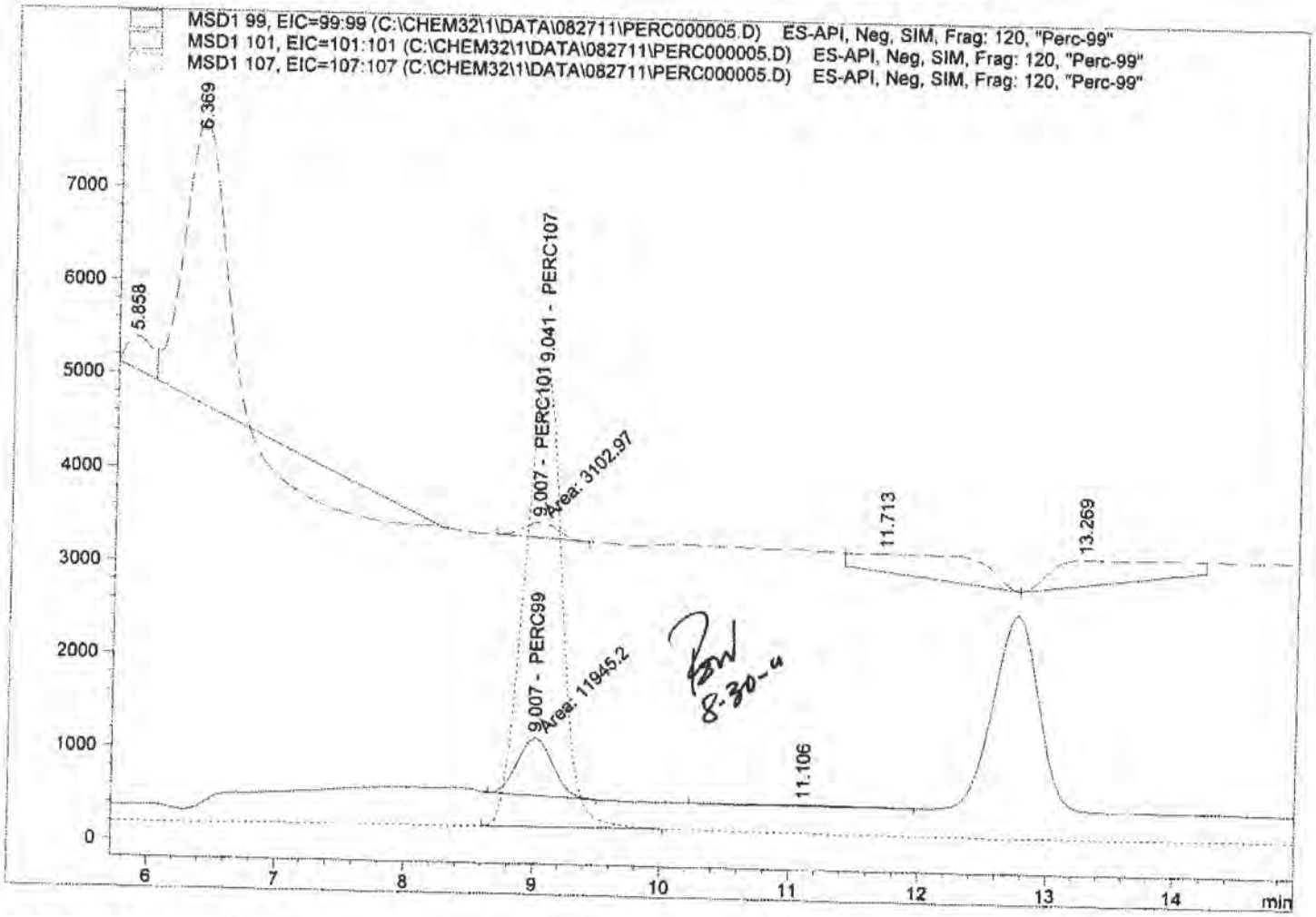


Instrument 1 8/27/2011 3:07:06 PM RDW

1110004

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

Acq. Operator	: RDW	Seq. Line	: 5
Acq. Instrument	: Instrument 1	Location	: Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	8/30/2011 11:18:25 AM
Multiplier:	:	1.0000
Dilution:	:	1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

```
==================================================================
Acq. Operator    : RDW                          Seq. Line :   5
Acq. Instrument  : Instrument 1                  Location : Vial 72
Injection Date   : 8/27/2011 2:45:49 PM                Inj :   1
                                               Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed     : 8/30/2011 11:18:18 AM by RDW
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	1.19452e4	5.57528e-1	3.36653e-1		PERC99

Totals without ISTD(s) : 3.36653e-1

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	3102.96851	2.35559	3.69487e-1		PERC101

Totals without ISTD(s) : 3.69487e-1

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.041	BBA I	1	9.89118e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

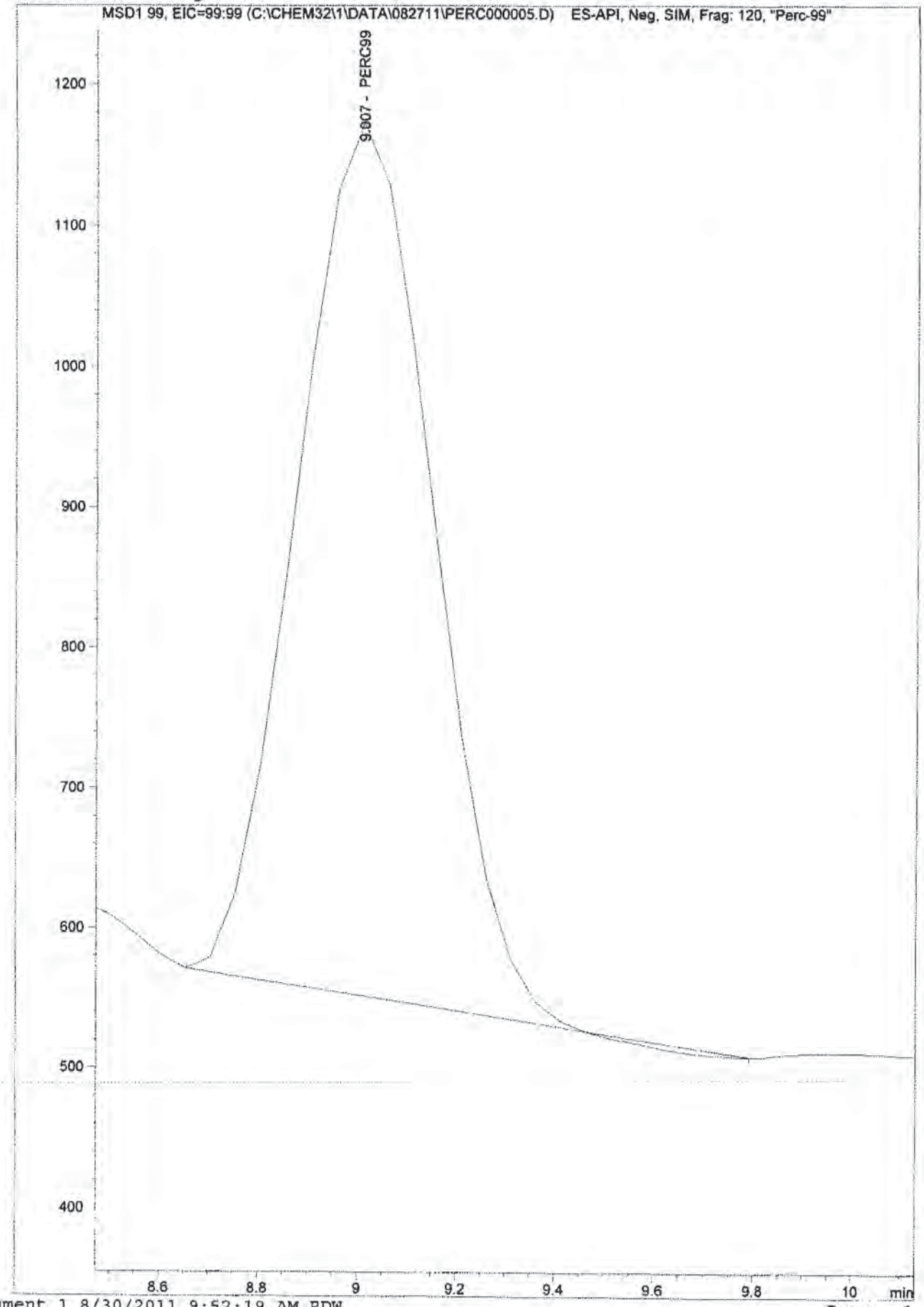
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

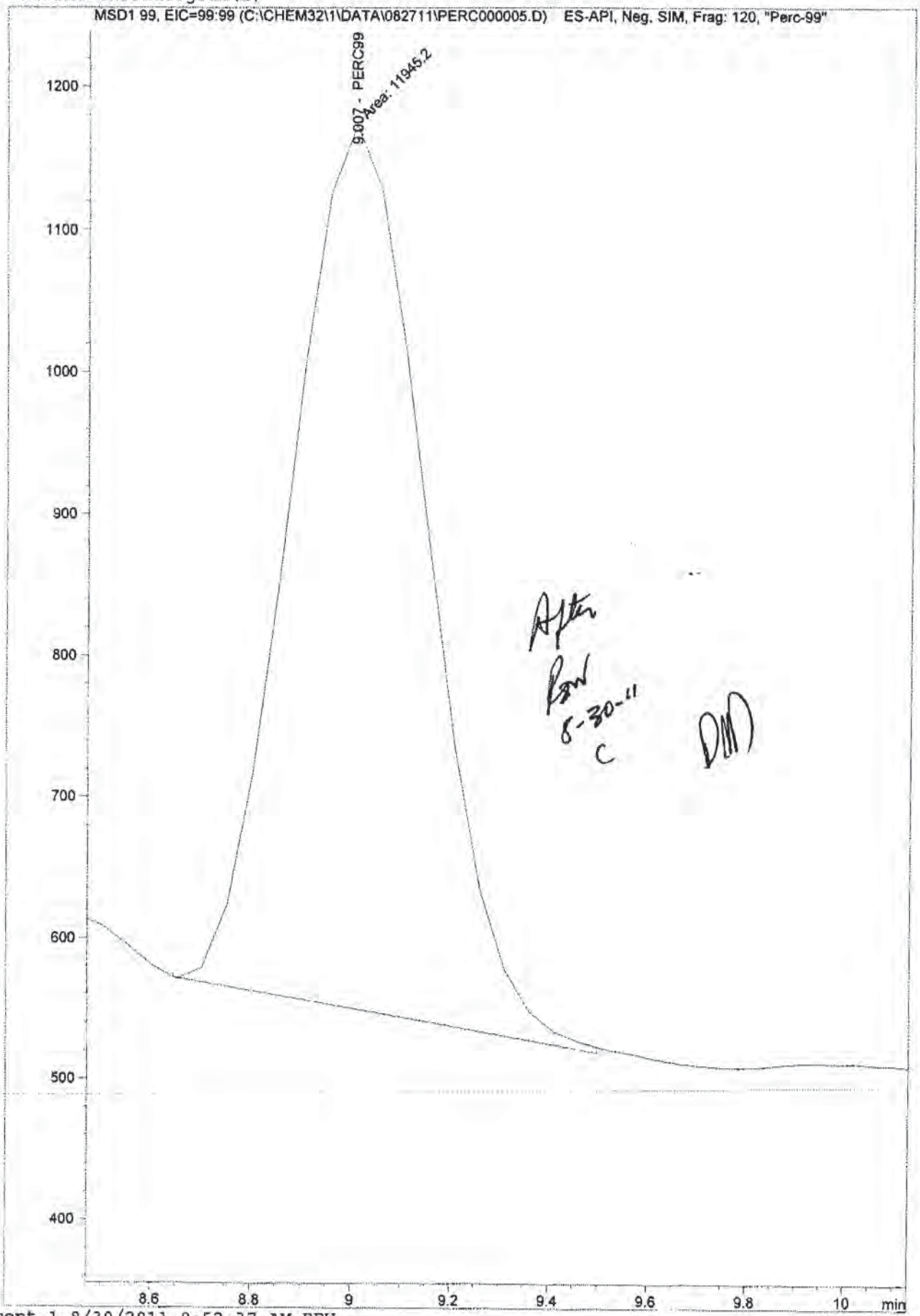
*** End of Report ***

Current Chromatogram(s)



Instrument 1 8/30/2011 9:52:19 AM RDW

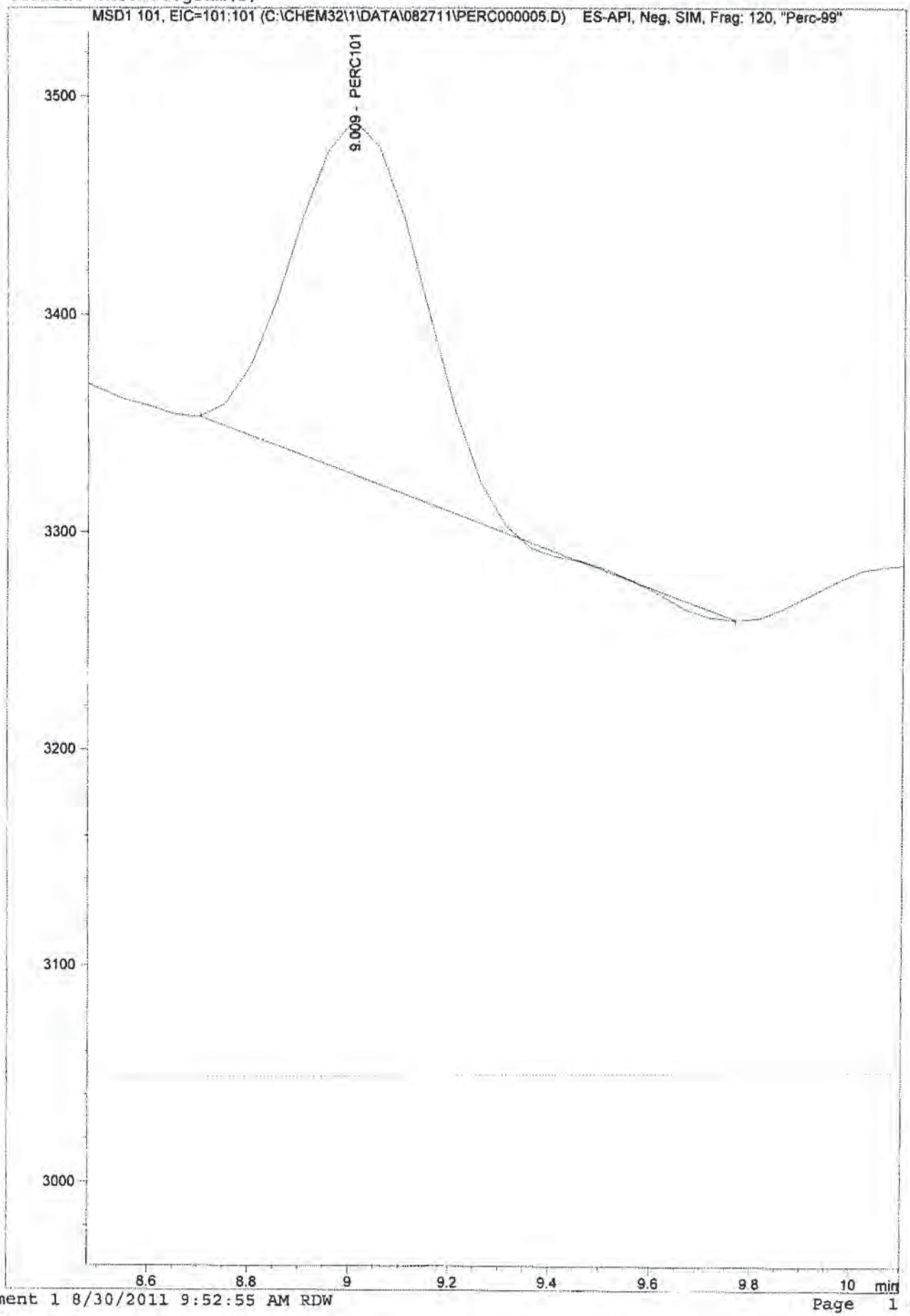
Current Chromatogram(s)



Instrument 1 8/30/2011 9:52:37 AM RDW

1110004

Current Chromatogram(s)

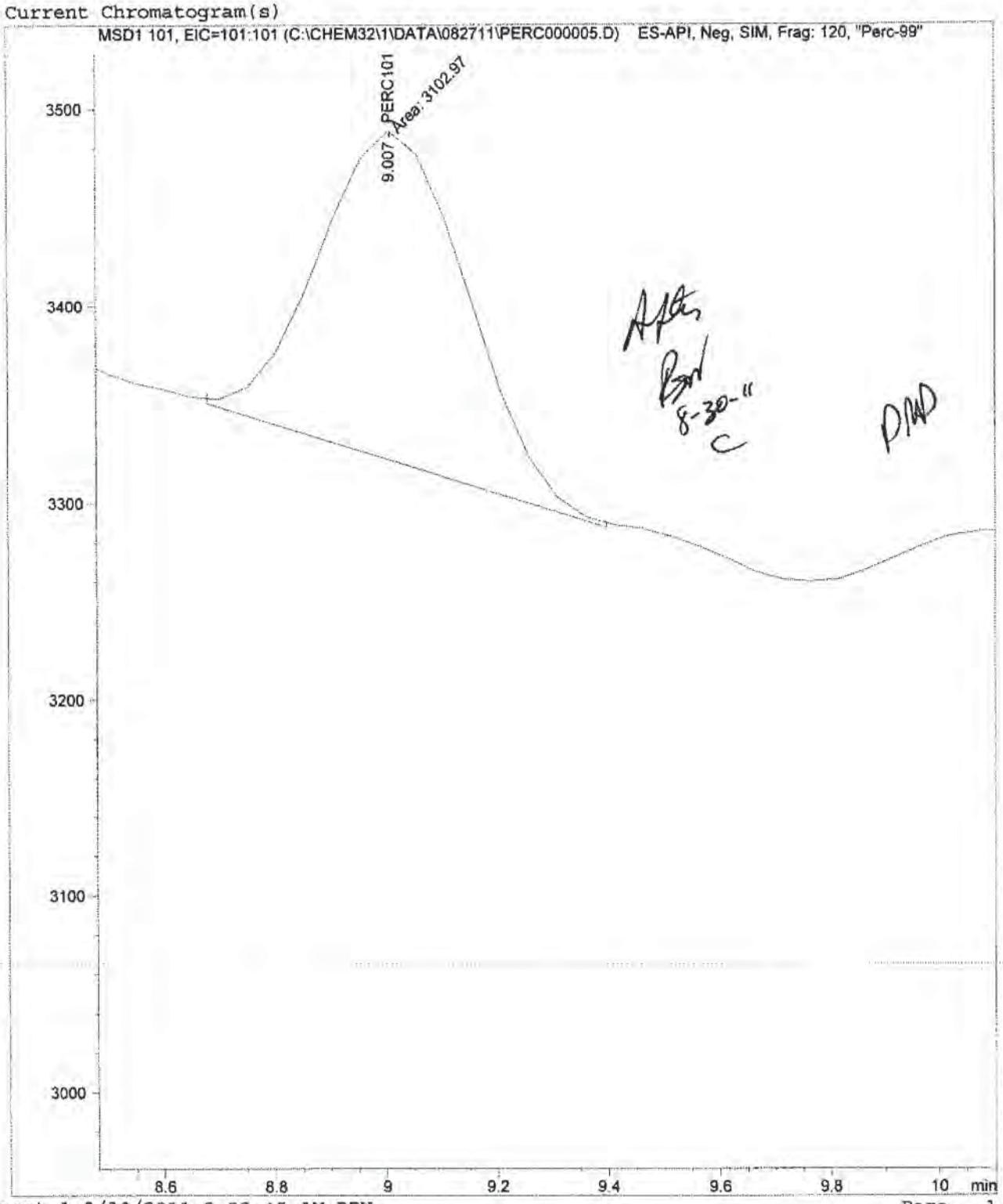


Print of Window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name : SEQ-CAL2

Acq. Operator	: RDW	Seq. Line :	5
Acq. Instrument	: Instrument 1	Location :	Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj :	1
		Inj Volume :	100 µl

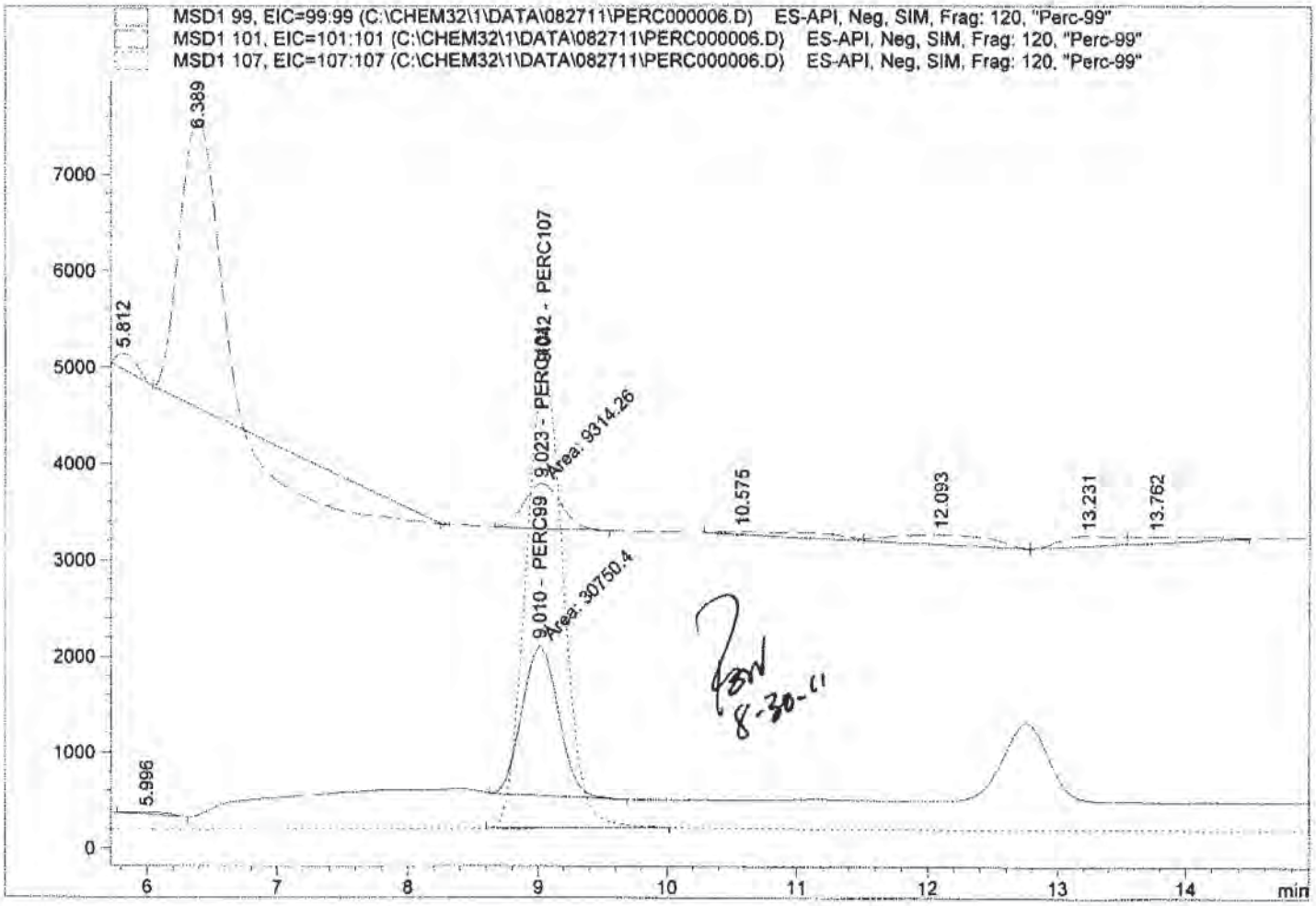
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



8-30-11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

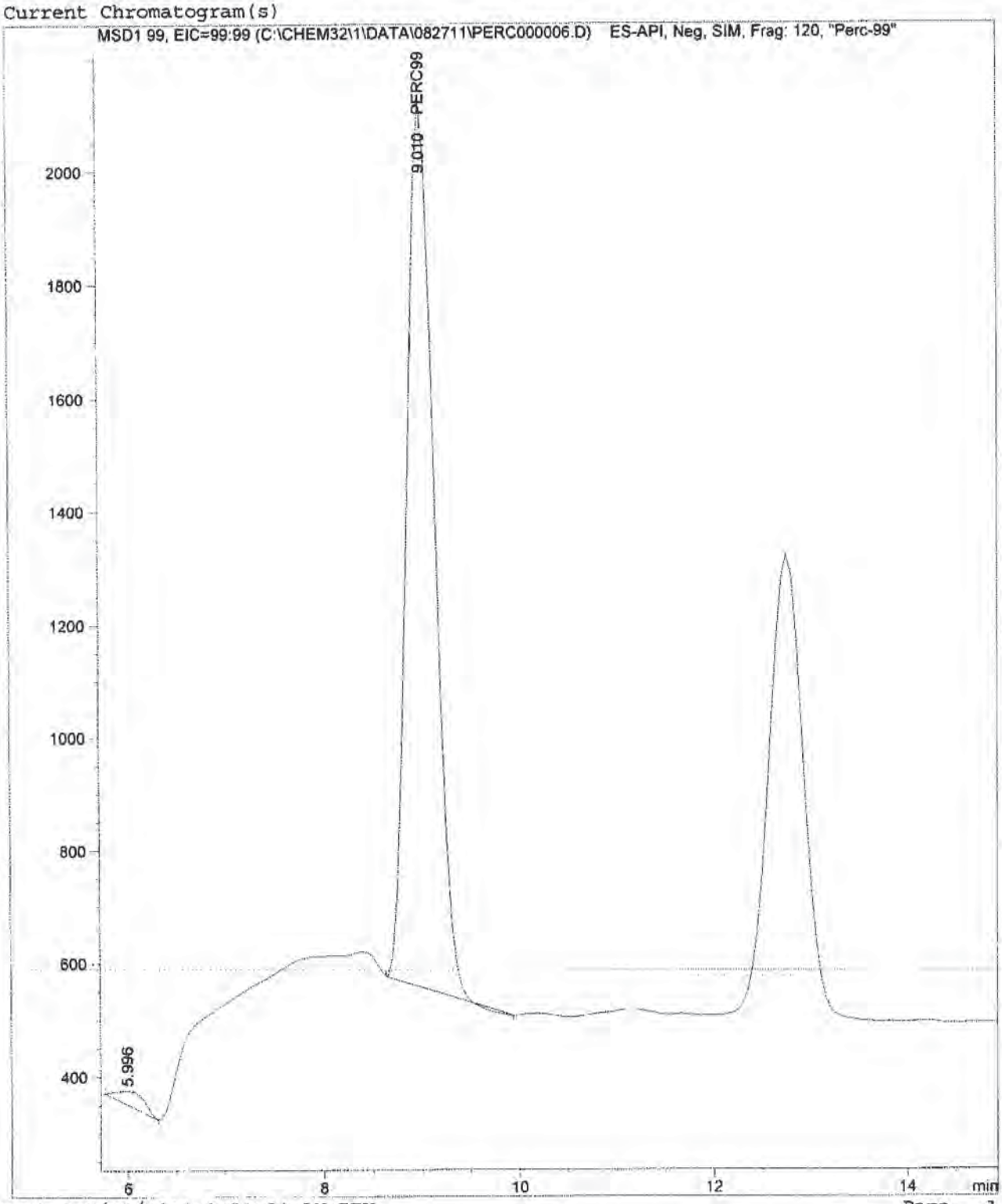
```
==================================================================
Acq. Operator   : RDW                          Seq. Line :   6
Acq. Instrument : Instrument 1                  Location : Vial 73
Injection Date  : 8/27/2011 3:04:43 PM               Inj :   1
                                               Inj Volume : 100 µl
Acq. Method     : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed    : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed    : 8/30/2011 11:18:18 AM by RDW
==================================================================


Signal 1: MSD1 99, EIC=99:99

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.010 MM        1 3.07504e4  7.23573e-1    1.15415     PERC99

Totals without ISTD(s) :                 1.15415


Signal 2: MSD1 101, EIC=101:101

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.023 MM        1 9314.26172    2.45593    1.18656     PERC101

Totals without ISTD(s) :                 1.18656


Signal 3: MSD1 107, EIC=107:107

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.042 BBA  I    1 9.63925e4     1.00000    5.00000     PERC107

Totals without ISTD(s) :                 0.00000


2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==================================================================
                        *** End of Report ***
```

Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Instrument 1 8/30/2011 9:54:24 AM RDW

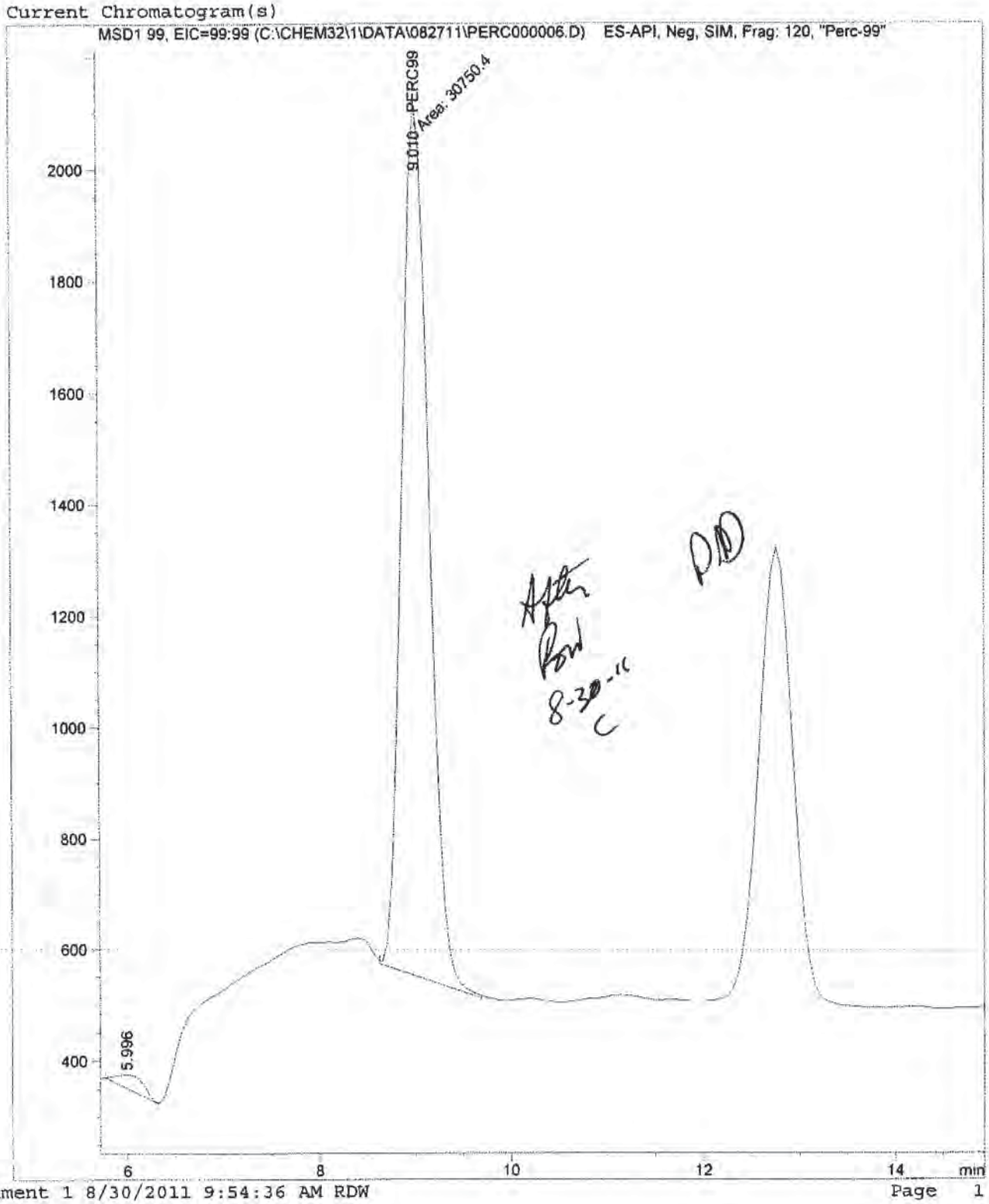
Print of window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

==========

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)

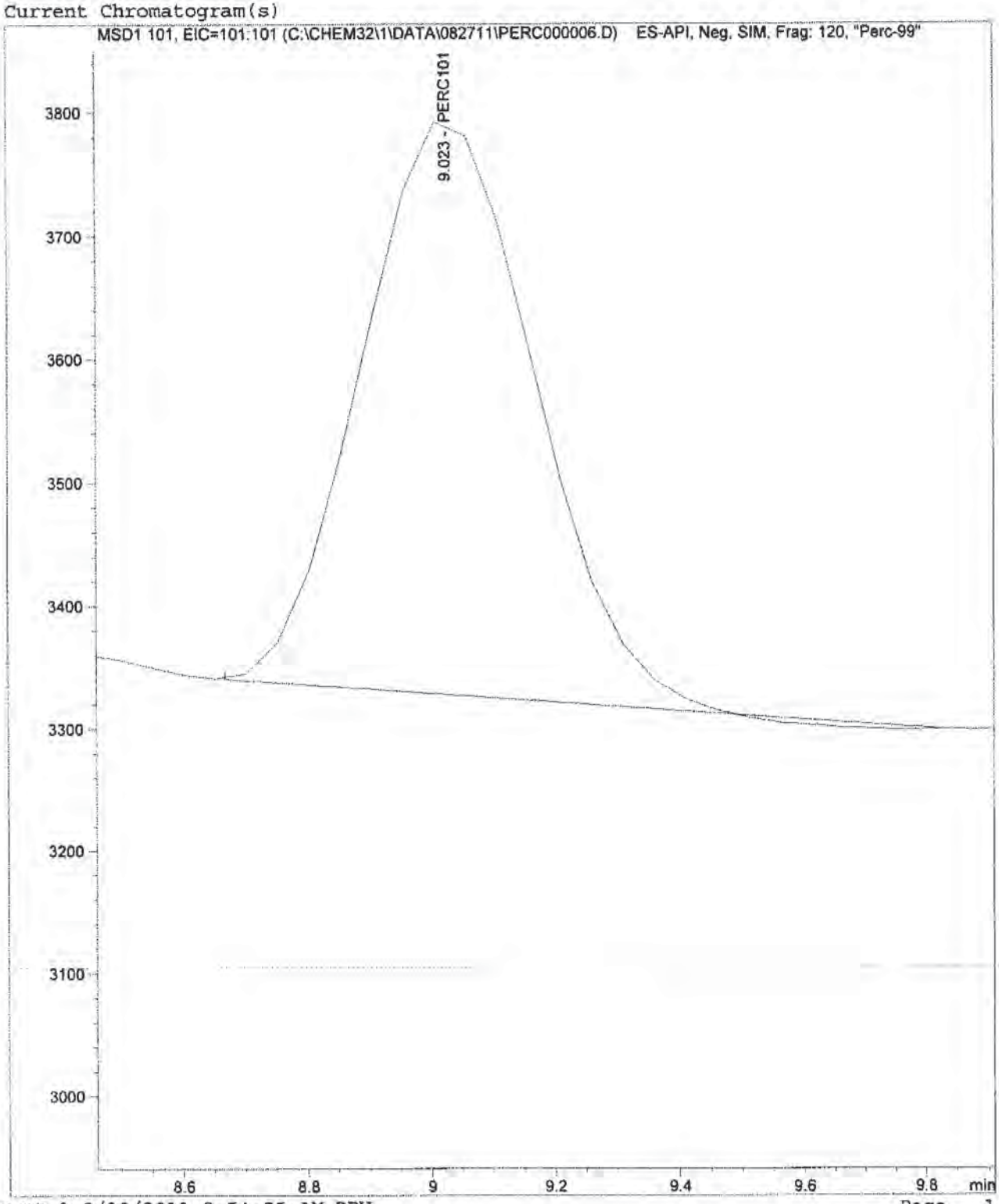


Print of Window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

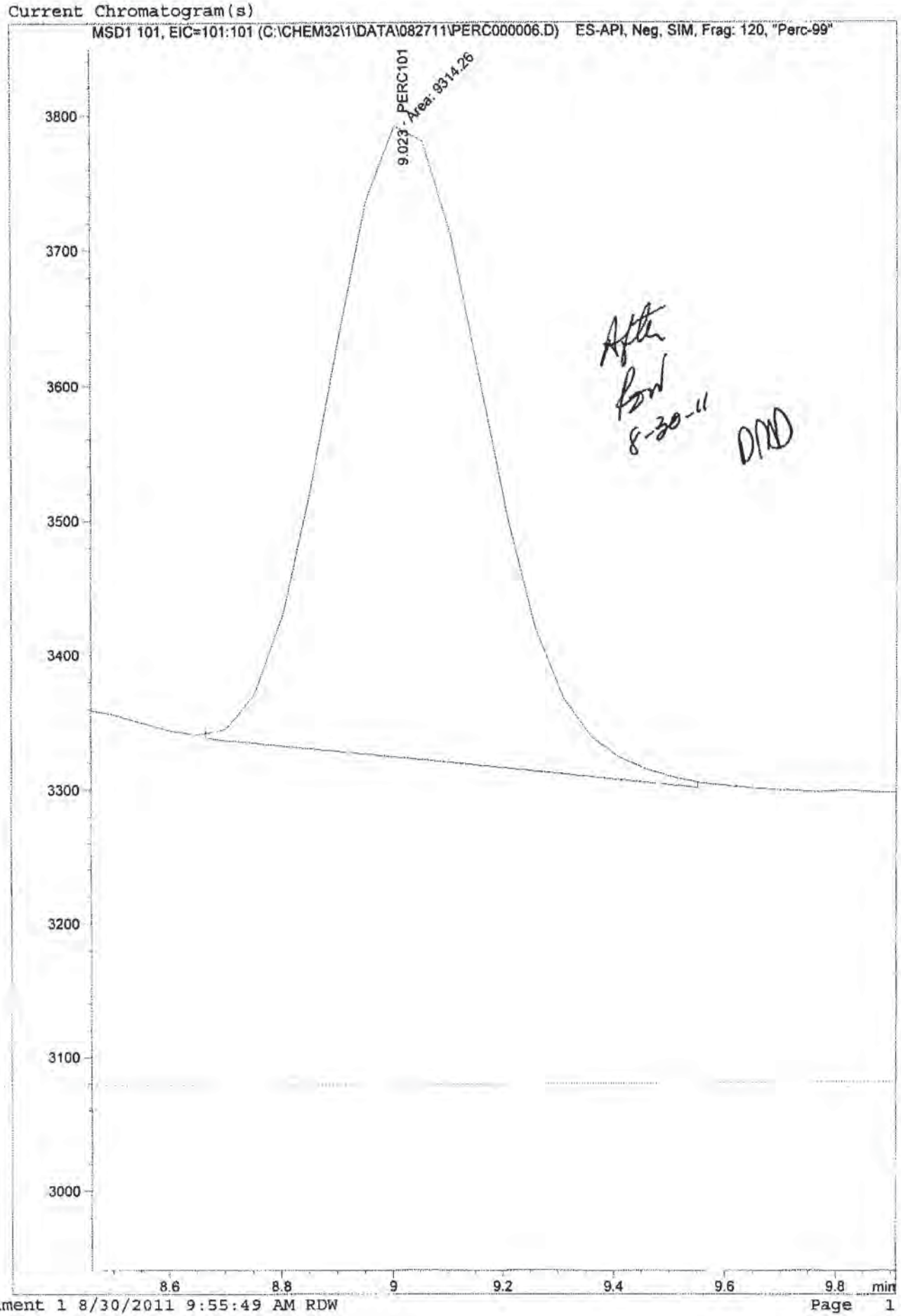
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Instrument 1 8/30/2011 9:54:55 AM RDW

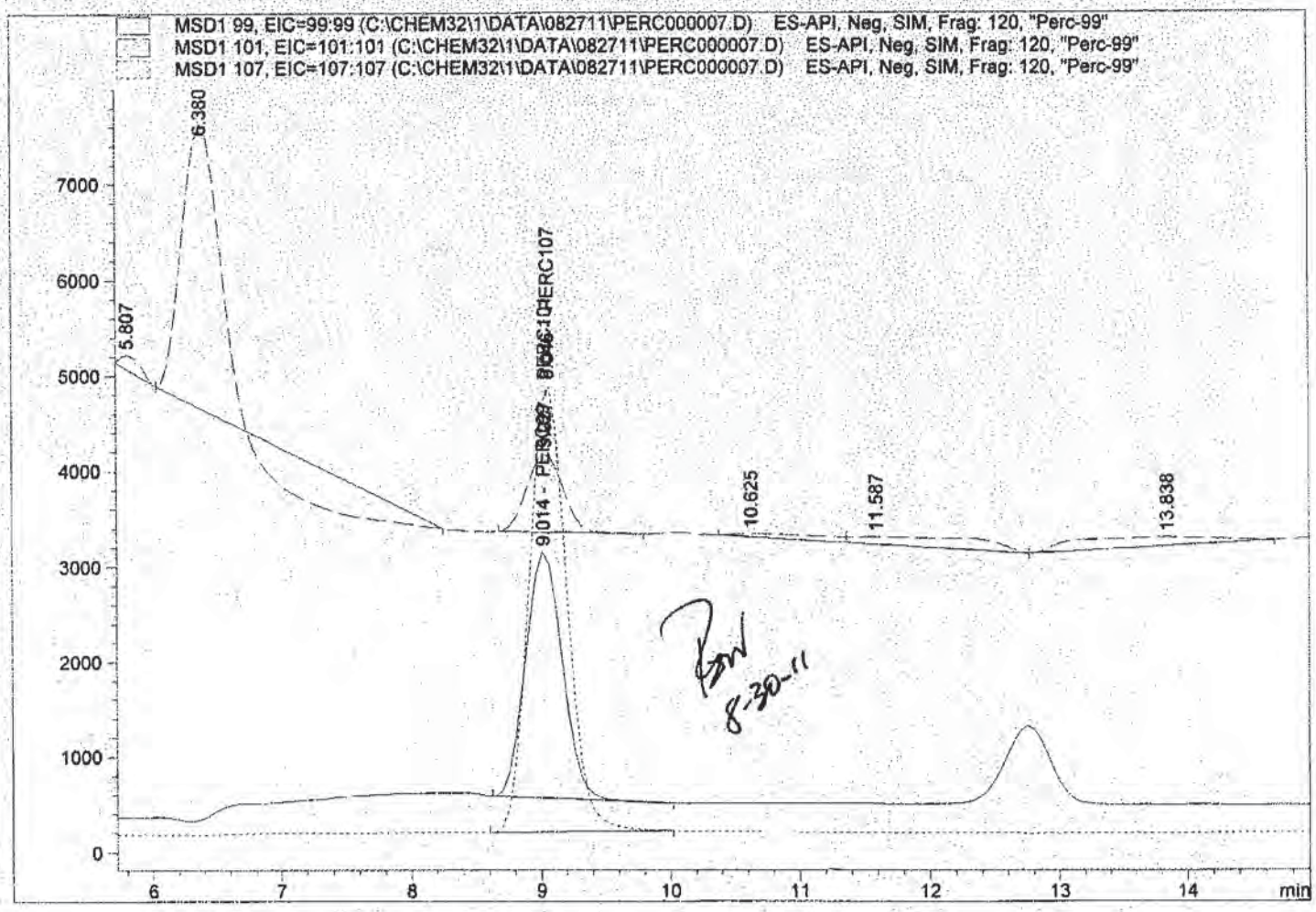
Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000007.D
Sample Name: SEQ-CAL4

Acq. Operator	: RDW	Seq. Line :	7
Acq. Instrument	: Instrument 1	Location :	Vial 74
Injection Date	: 8/27/2011 3:23:33 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC00007.D
Sample Name: SEQ-CAL4

==========

Acq. Operator : RDW
Seq. Line : 7
Acq. Instrument : Instrument 1
Location : Vial 74
Injection Date : 8/27/2011 3:23:33 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

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Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.014	VBA	1	5.09053e4	7.64671e-1	2.05443		PERC99

Totals without ISTD(s) : 2.05443

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.027	BV	1	1.57252e4	2.47608	2.05501		PERC101

Totals without ISTD(s) : 2.05501

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.046	BBA I	1	9.47365e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

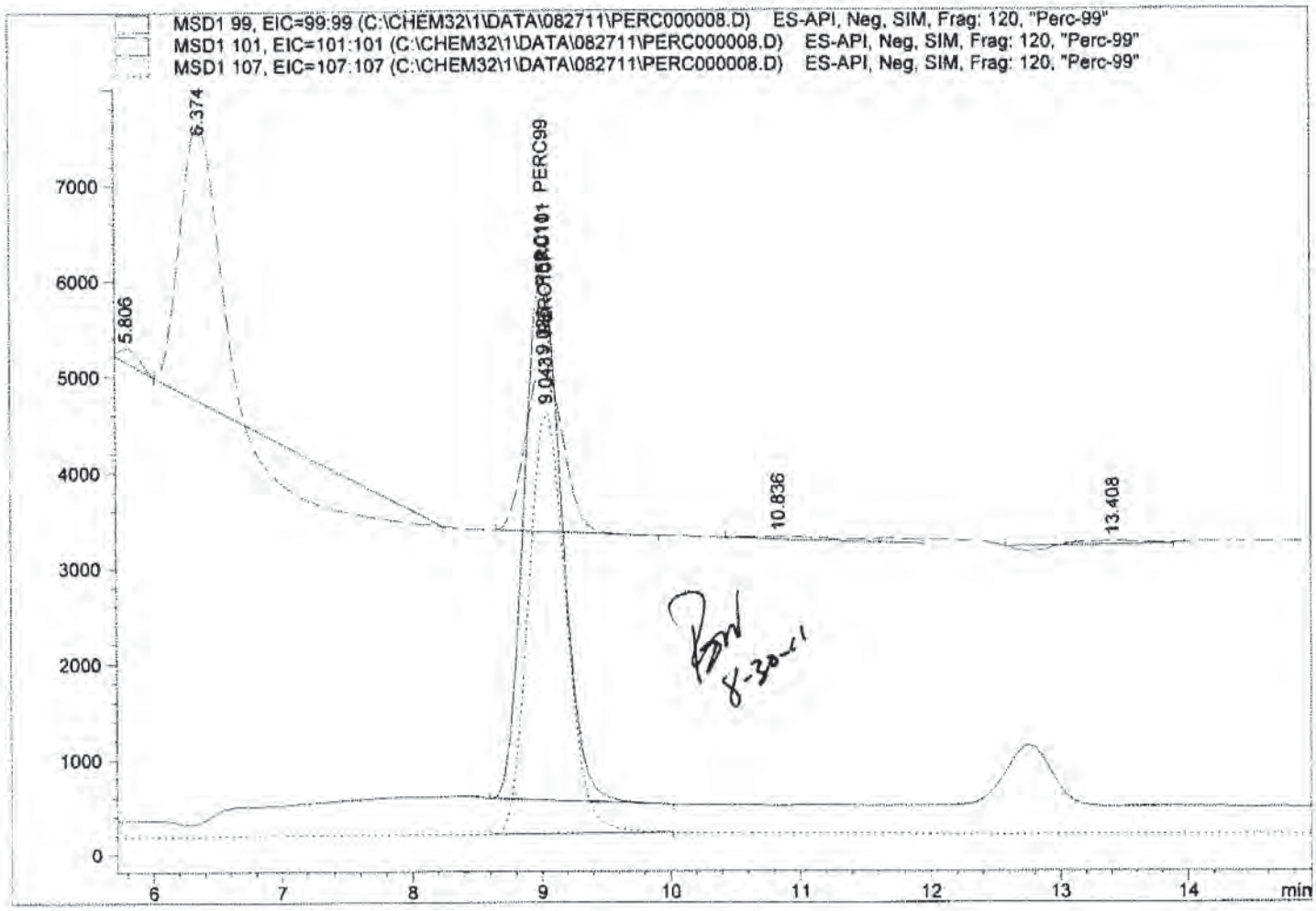
Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

==========

Acq. Operator	: RDW	Seq. Line :	8
Acq. Instrument	: Instrument 1	Location :	Vial 75
Injection Date	: 8/27/2011 3:42:20 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========



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Internal Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

Acq. Operator	: RDW	Seq. Line :	8
Acq. Instrument	: Instrument 1	Location :	Vial 75
Injection Date	: 8/27/2011 3:42:20 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.011	VBA	1	1.11488e5	7.98669e-1	4.94582		PERC99

Totals without ISTD(s) : 4.94582

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.026	BB	1	3.48506e4	2.49212	4.82415		PERC101

Totals without ISTD(s) : 4.82415

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.043	BBA I	1	9.00178e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

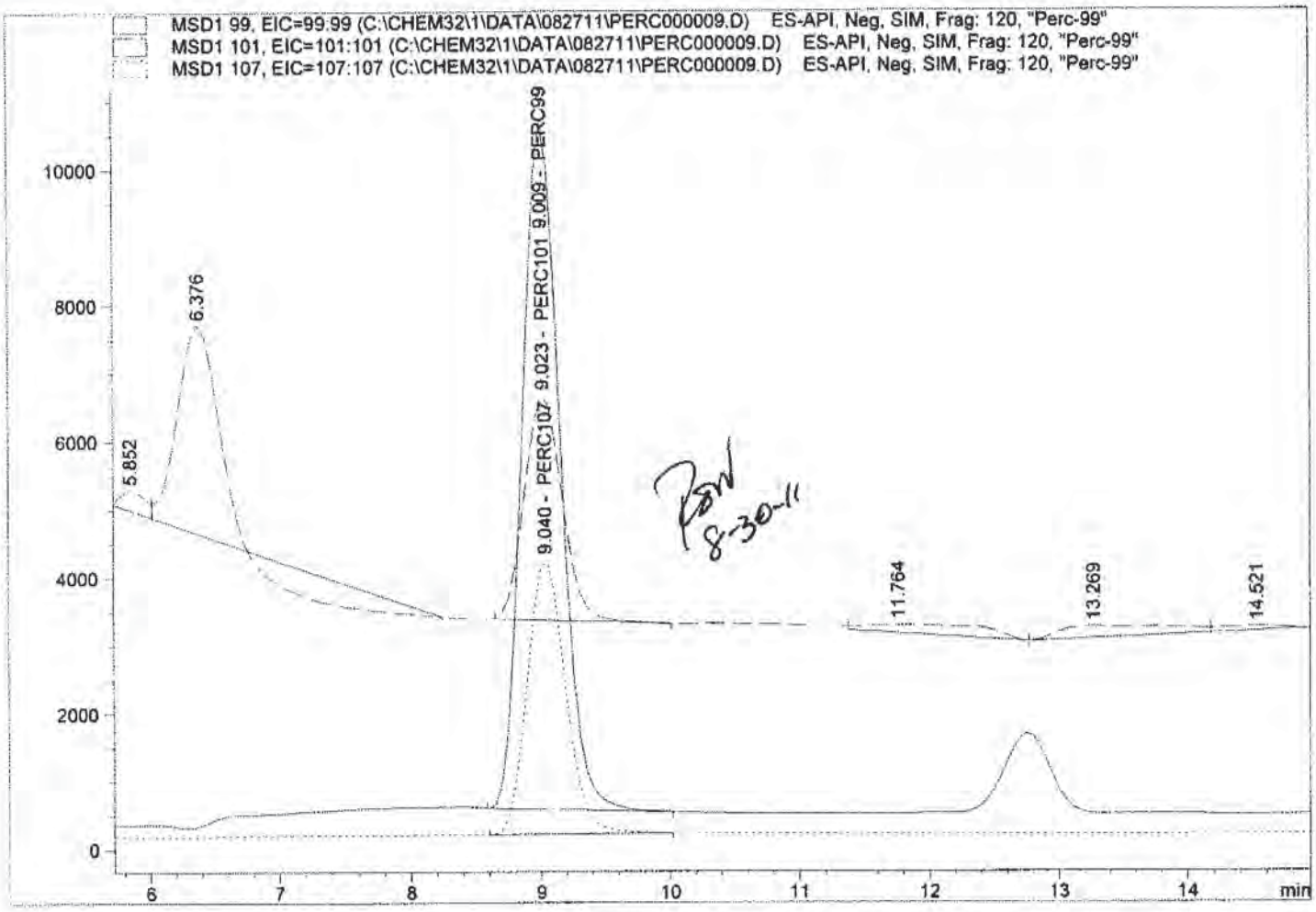
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

Acq. Operator	: RDW	Seq. Line :	9
Acq. Instrument	: Instrument 1	Location :	Vial 76
Injection Date	: 8/27/2011 4:01:04 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

==========

Acq. Operator : RDW
Seq. Line : 9
Acq. Instrument : Instrument 1
Location : Vial 76
Injection Date : 8/27/2011 4:01:04 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.009	VBA	1	2.05426e5	8.11639e-1	10.00896		PERC99

Totals without ISTD(s) : 10.00896

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.023	BBA	1	6.71082e4	2.49838	10.06479		PERC101

Totals without ISTD(s) : 10.06479

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.040	BBA I	1	8.32912e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

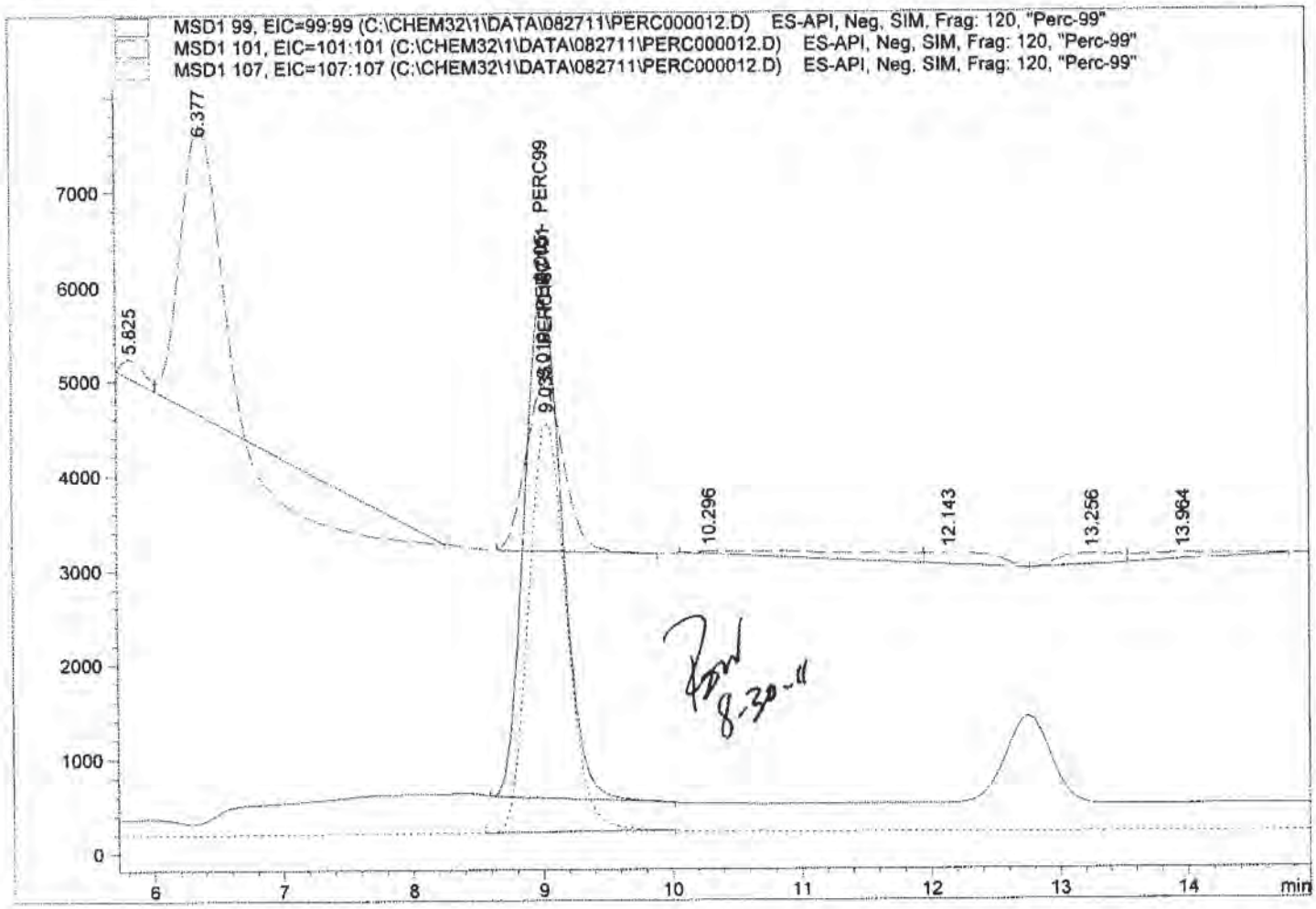
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

Acq. Operator	: RDW	Seq. Line	: 12
Acq. Instrument	: Instrument 1	Location	: Vial 79
Injection Date	: 8/27/2011 4:57:17 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

==========

Acq. Operator : RDW
Acq. Instrument : Instrument 1
Injection Date : 8/27/2011 4:57:17 PM

Seq. Line : 12
Location : Vial 79
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.005	VBA	1	1.08549e5	7.98255e-1	4.86590		PERC99

Totals without ISTD(s) : 4.86590

97.3% PD

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.019	BV	1	3.53562e4	2.49243	4.94863		PERC101

Totals without ISTD(s) : 4.94863

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.035	BBA I	1	8.90373e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

Sequence Table:

Quantification Part:

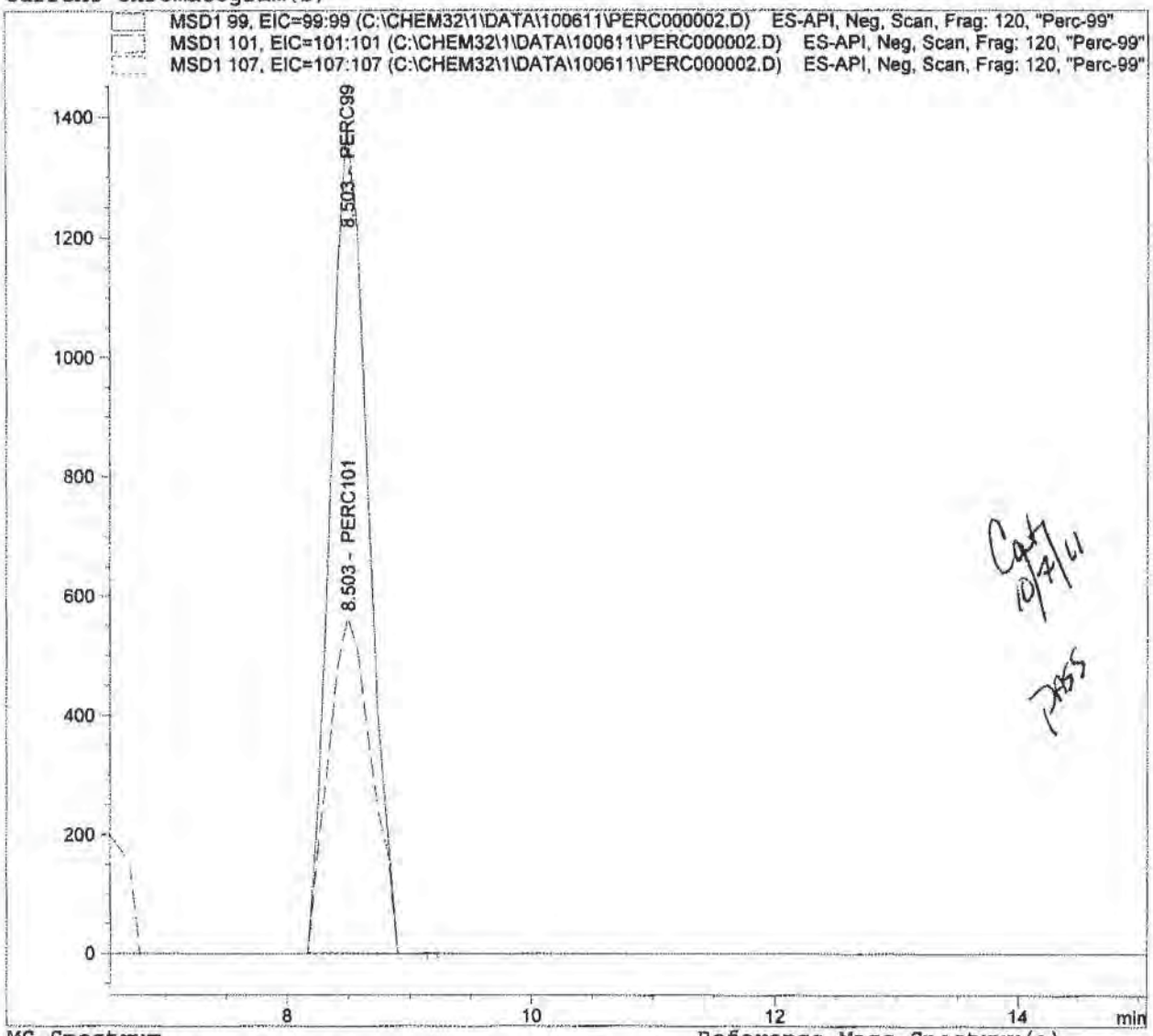
Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 3	SEQ-CCV1				
5	Vial 4	SEQ-LCV1				
6	Vial 5	ICS				
7	Vial 2	Reagent Blank				
8	Vial 2	Reagent Blank				
9	Vial 7	1J05014-BLK1				
10	Vial 8	1J05014-BS1				
11	Vial 9	1109223-01				
12	Vial 10	1J05014-MS1				
13	Vial 11	1J05014-MSD1				
14	Vial 12	1109223-02				
15	Vial 13	1109223-03				
16	Vial 14	1109223-04				
17	Vial 15	1109223-05				
18	Vial 16	1109223-06				
19	Vial 2	Reagent Blank				
20	Vial 3	SEQ-CCV2				
21	Vial 4	SEQ-LCV2				
22	Vial 17	1109224-01				
23	Vial 18	1109224-02				
24	Vial 19	1109224-03				
25	Vial 20	1109224-04				
26	Vial 21	1109244-01@20				
27	Vial 22	1109246-01@20				
28	Vial 2	Reagent Blank				
29	Vial 3	SEQ-CCV3				
30	Vial 4	SEQ-LCV3				
31	Vial 23	1J05023-BLK1				
32	Vial 24	1J05023-BS1				
33	Vial 25	1109176-02@20				
34	Vial 26	1J05023-MS1@20				
35	Vial 27	1J05023-MSD1@20				
36	Vial 28	1109176-03				
37	Vial 29	1109193-02				
38	Vial 30	1109193-03				
39	Vial 31	1109193-04 - OLR 2x				
40	Vial 32	1109193-05@5 - OLR 100x				
41	Vial 33	1109193-06 - OLR ~~200x~~ 500x				
42	Vial 34	1109193-07 - OLR 50x				
43	Vial 35	1109193-08 - OLR 200x				
44	Vial 36	1109193-09 - OLR 5000x				
45	Vial 2	Reagent Blank				
46	Vial 3	SEQ-CCV4				
47	Vial 4	SEQ-LCV4				
48	Vial 37	1109193-10				
49	Vial 38	1109193-11				
50	Vial 39	1109194-01@5				
51	Vial 40	1109194-02@5				

Pg 433
Cat
10/7/11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 41	1109194-03@5				
53	Vial 42	1110002-01				
54	Vial 43	1110004-01@500				
55	Vial 44	1110004-02@500				
56	Vial 45	1110010-01				
57	Vial 46	1110010-02				
58	Vial 2	Reagent Blank				
59	Vial 3	SEQ-CCV5				
60	Vial 4	SEQ-LCV5				

Print of all graphic windows

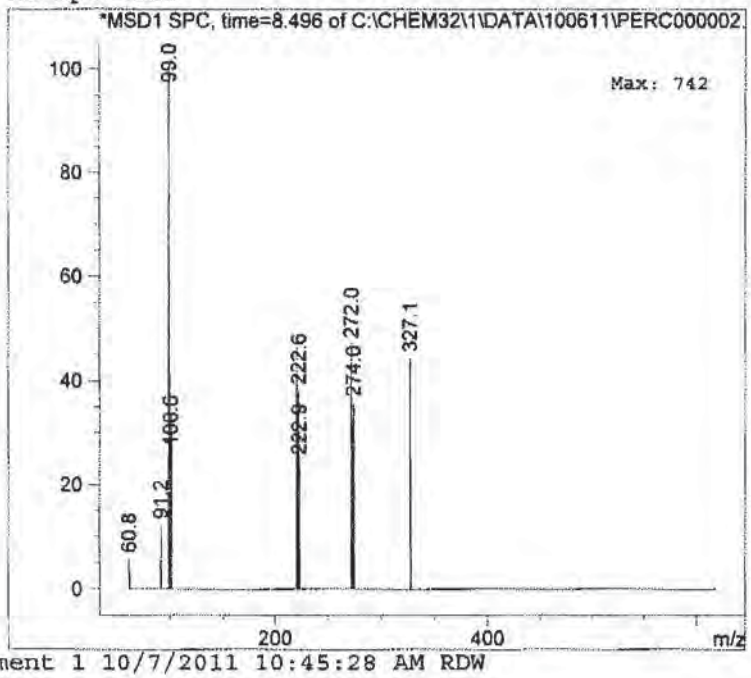
Current Chromatogram(s)



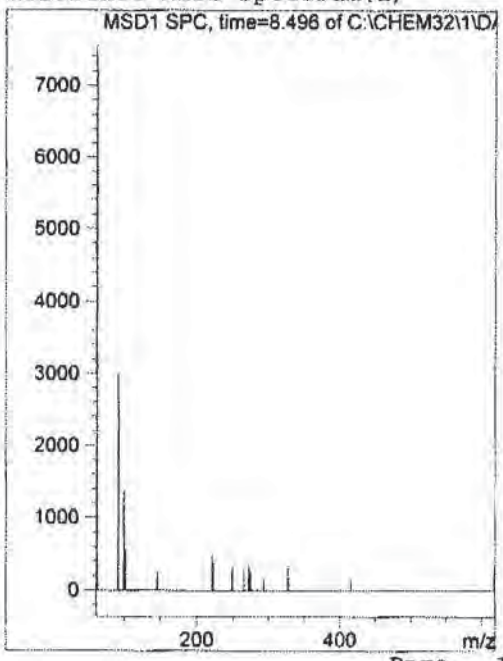
Cat 10/7/11

PASS

MS Spectrum



Reference Mass Spectrum(a)

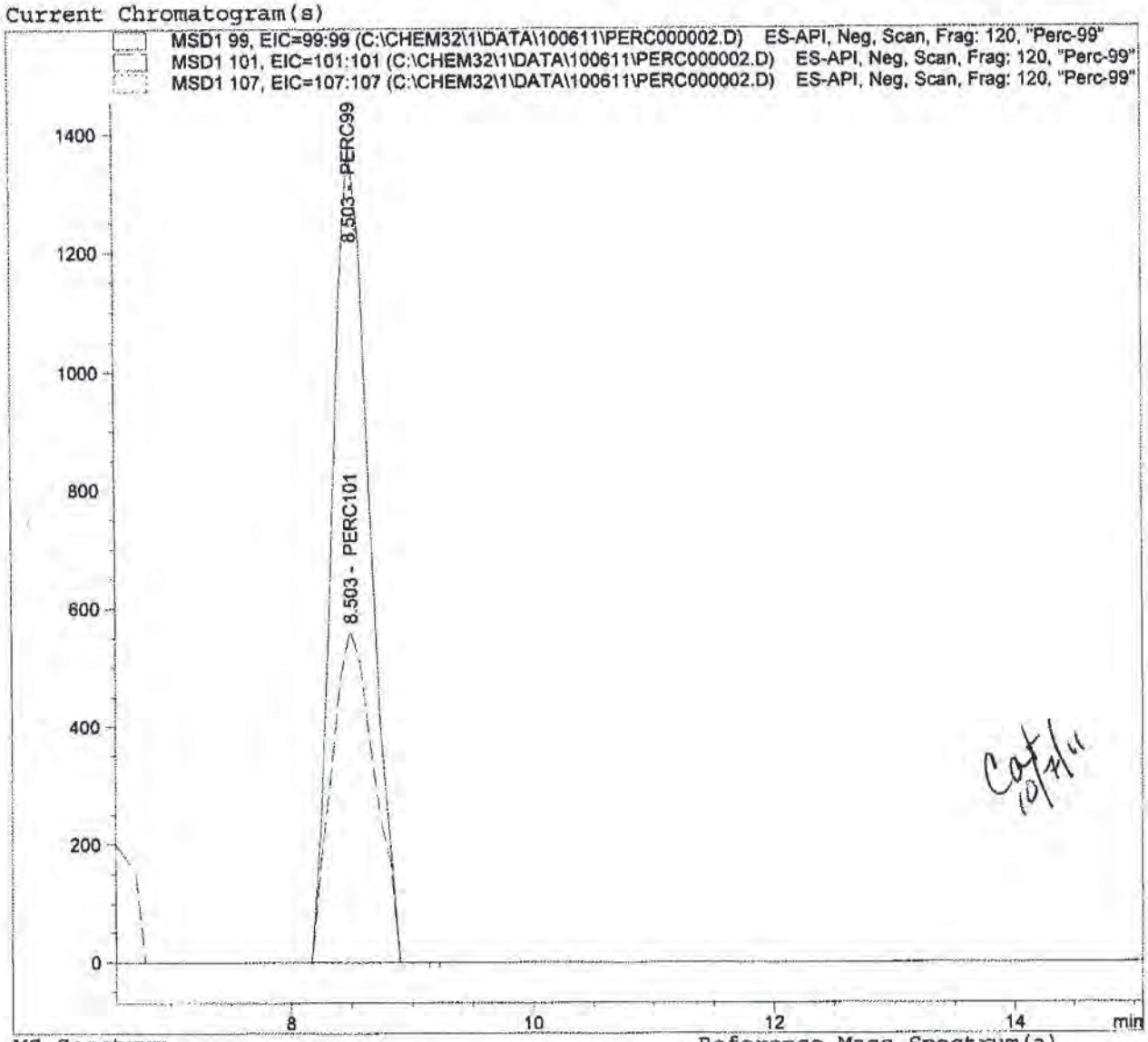


Instrument 1 10/7/2011 10:45:28 AM RDW

1110004

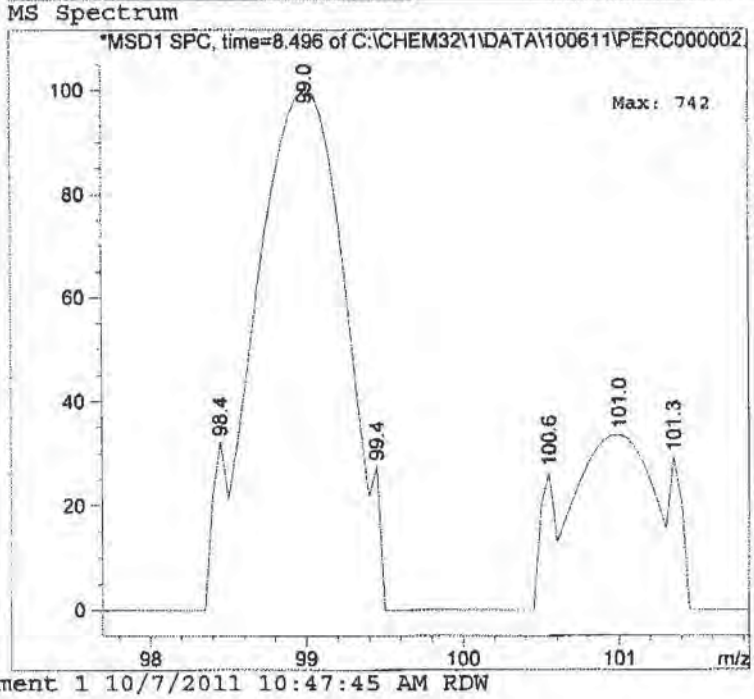
Print of all graphic windows

Current Chromatogram(s)

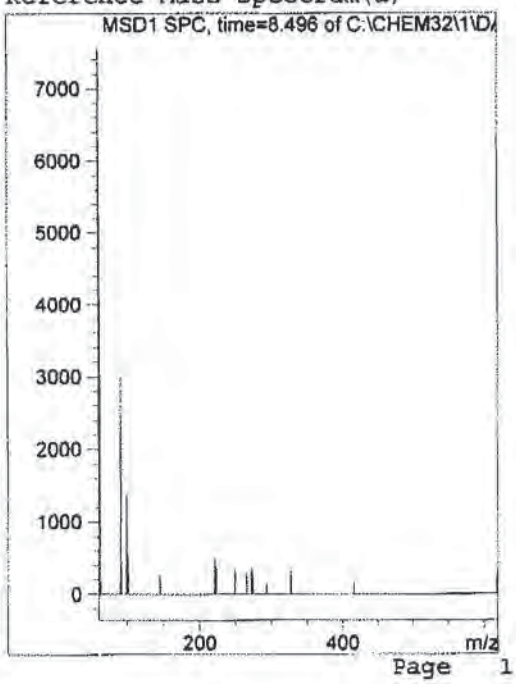


Cof 10/7/11

MS Spectrum



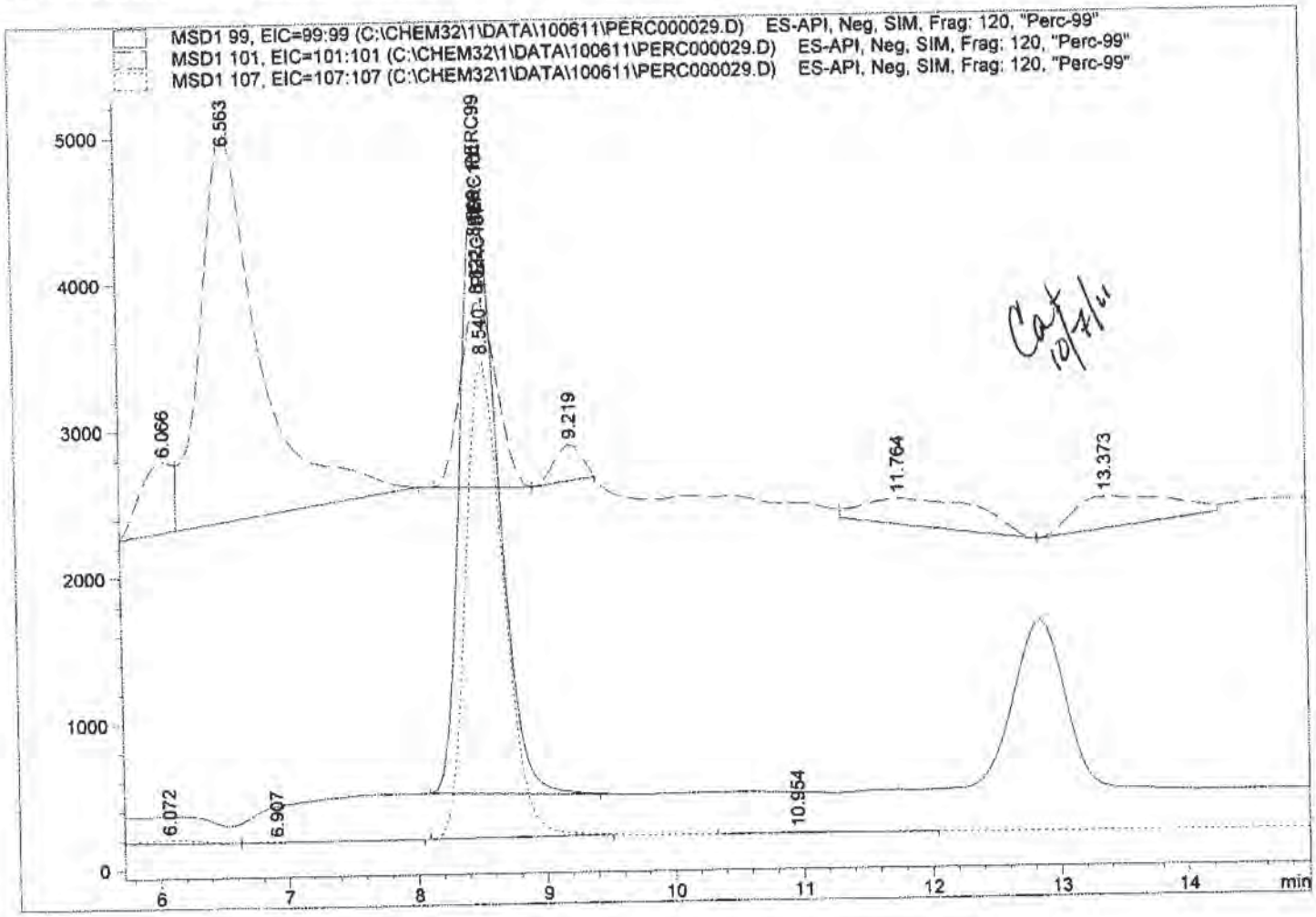
Reference Mass Spectrum(a)



Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

Acq. Operator	: CAT	Seq. Line	: 29
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/6/2011 11:11:31 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

==========

Acq. Operator : CAT
Seq. Line : 29
Acq. Instrument : Instrument 1
Location : Vial 3
Injection Date : 10/6/2011 11:11:31 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BBA	1	8.26208e4	7.99061e-1	5.02390		PERC99

Totals without ISTD(s) : 5.02390

100%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.522	BV	1	2.42131e4	2.49152	4.59076		PERC101

Totals without ISTD(s) : 4.59076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.540	BBA I	1	6.57050e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

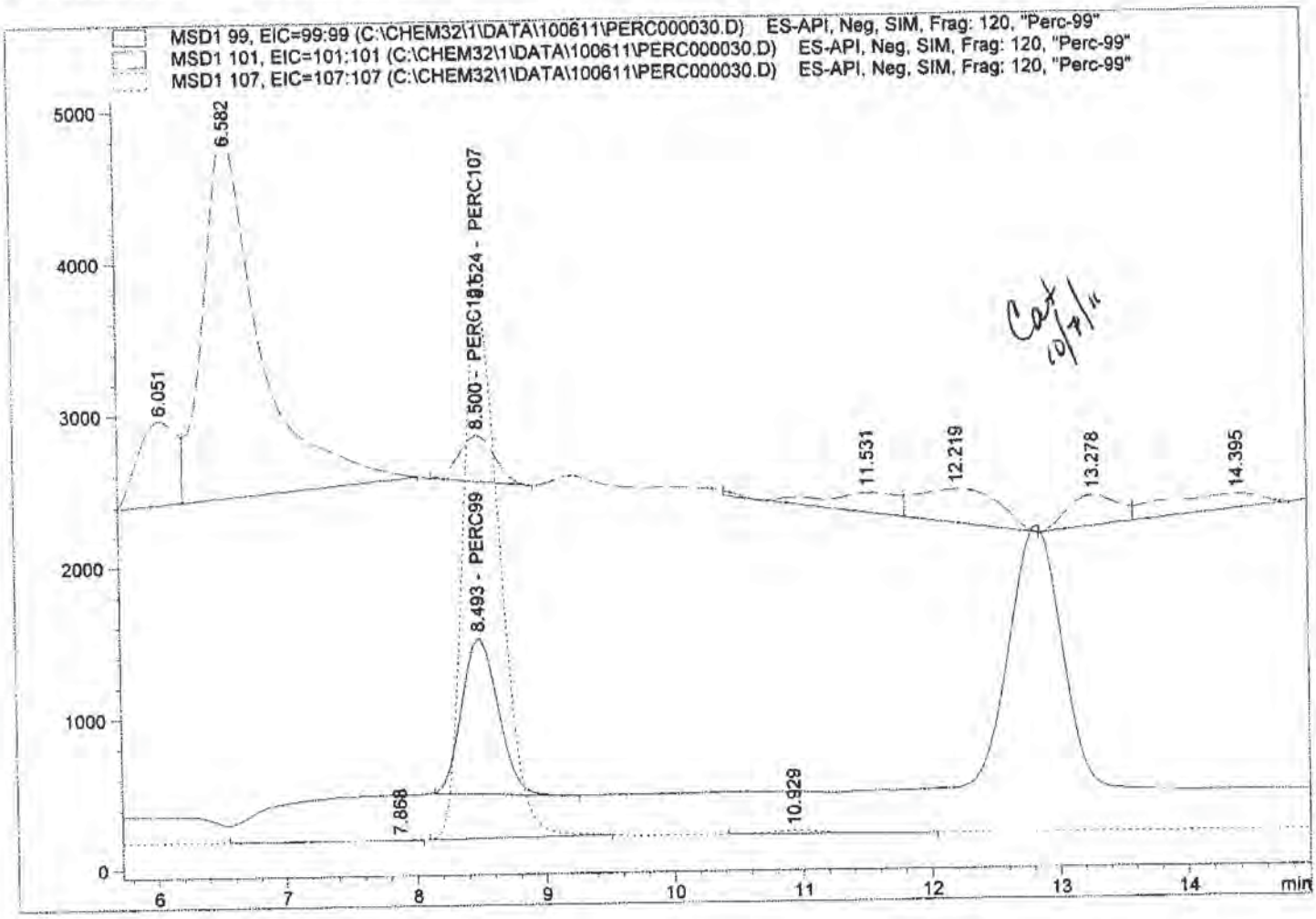
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator	: CAT	Seq. Line	: 30
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/6/2011 11:30:30 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator	: CAT	Seq. Line	: 30
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/6/2011 11:30:30 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.493	BB	1	2.02101e4	7.12747e-1	1.02696		PERC99

Totals without ISTD(s) : 1.02696

103%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BV	1	5799.44482	2.44780	1.01208		PERC101

Totals without ISTD(s) : 1.01208

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.524	BBA I	1	7.01325e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

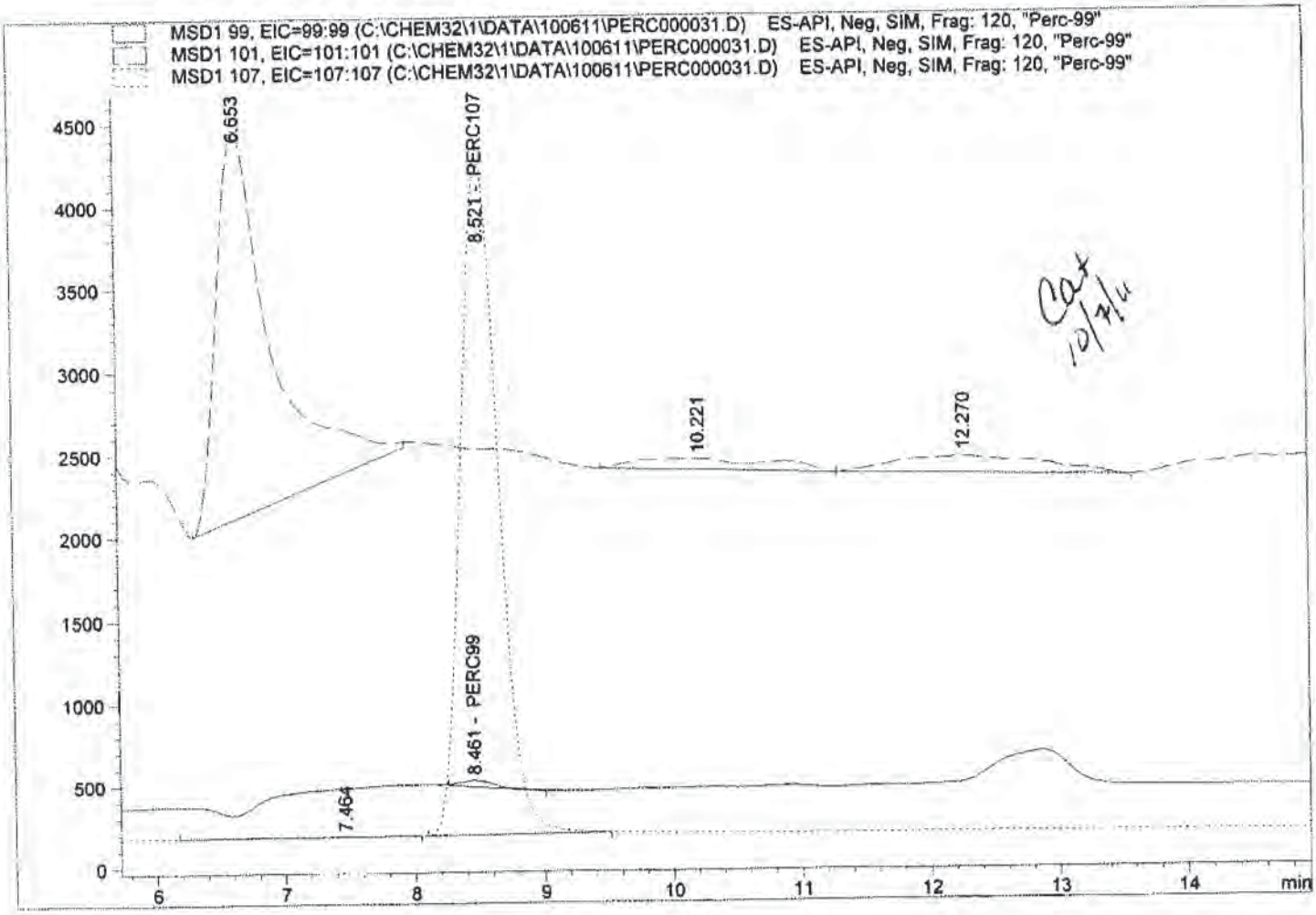
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

Acq. Operator	: CAT	Seq. Line	: 31
Acq. Instrument	: Instrument 1	Location	: Vial 23
Injection Date	: 10/6/2011 11:49:05 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



CAT 10/7/11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

```
==================================================================
Acq. Operator   : CAT                          Seq. Line :  31
Acq. Instrument : Instrument 1                  Location : Vial 23
Injection Date  : 10/6/2011 11:49:05 PM              Inj :   1
                                               Inj Volume : 100 µl

Acq. Method     : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed    : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed    : 10/7/2011 9:38:25 AM by RDW
                  (modified after loading)
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.461	BB	1	602.55627	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

ND

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.521	BBA I	1	8.19626e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

4 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

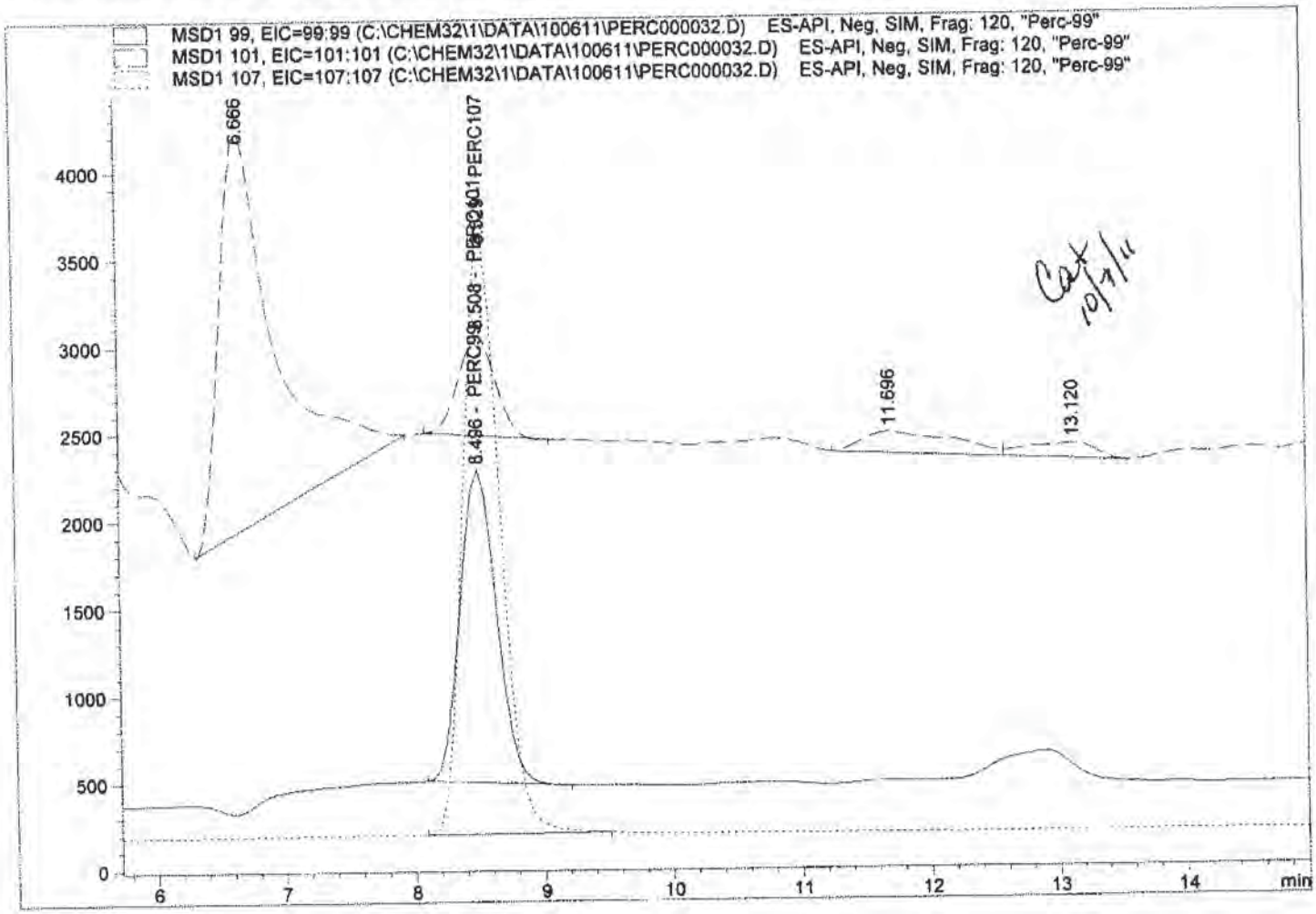
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

Acq. Operator	: CAT	Seq. Line :	32
Acq. Instrument	: Instrument 1	Location :	Vial 24
Injection Date	: 10/7/2011 12:08:00 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

==========

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 12:08:00 AM

Seq. Line : 32
Location : Vial 24
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.496	BB	1	3.49790e4	7.61378e-1	1.93925		PERC99

Totals without ISTD(s) : 1.93925

97%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BB	1	1.13197e4	2.47589	2.04076		PERC101

Totals without ISTD(s) : 2.04076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.529	BBA I	1	6.86662e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

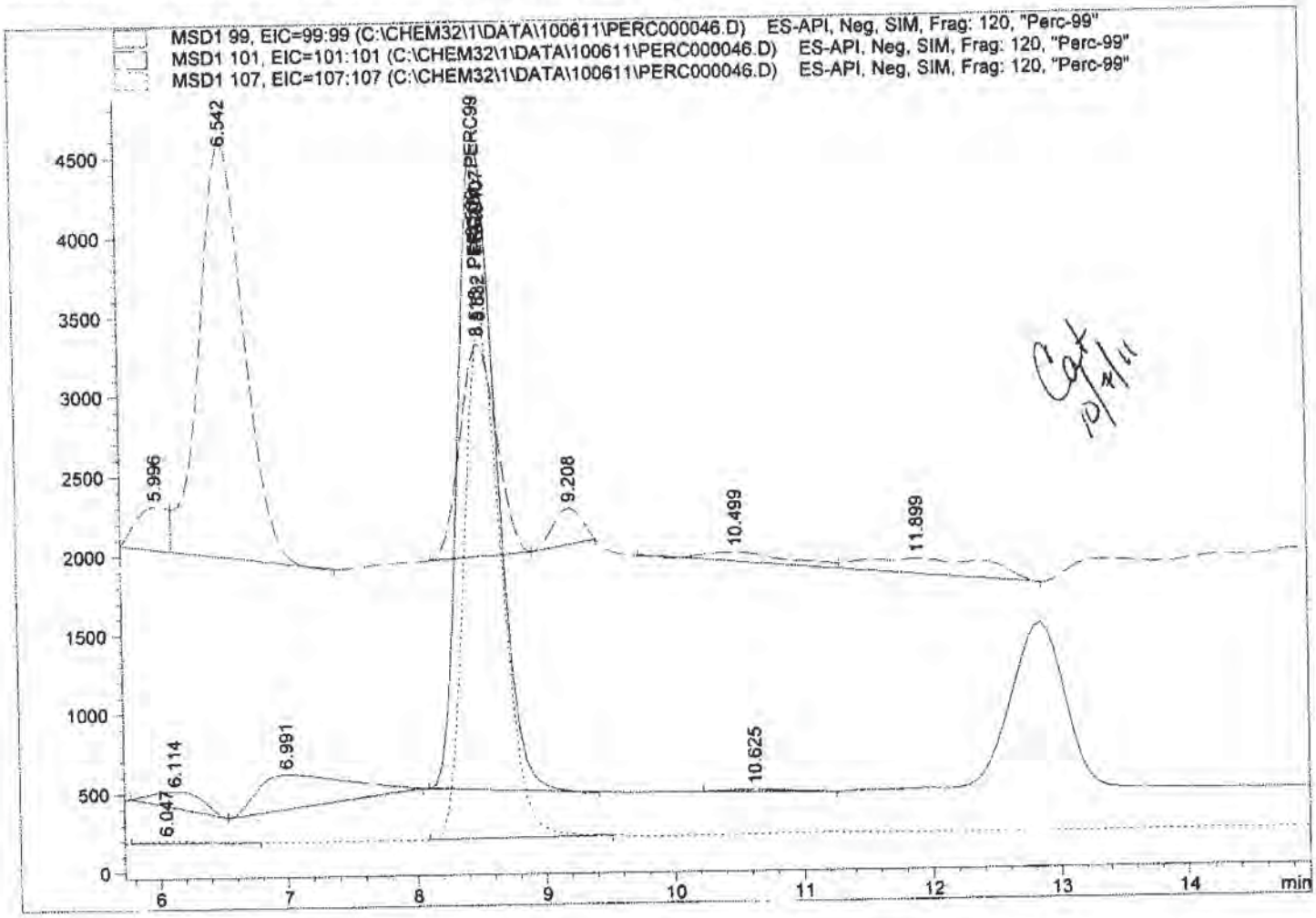
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

Acq. Operator	: CAT	Seq. Line	: 46
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/7/2011 4:30:47 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

==========

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 4:30:47 AM

Seq. Line : 46
Location : Vial 3
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BBA	1	8.21624e4	7.99302e-1	5.07300		PERC99

Totals without ISTD(s) : 5.07300

10090

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.515	BV	1	2.60930e4	2.49260	5.02409		PERC101

Totals without ISTD(s) : 5.02409

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.47275e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

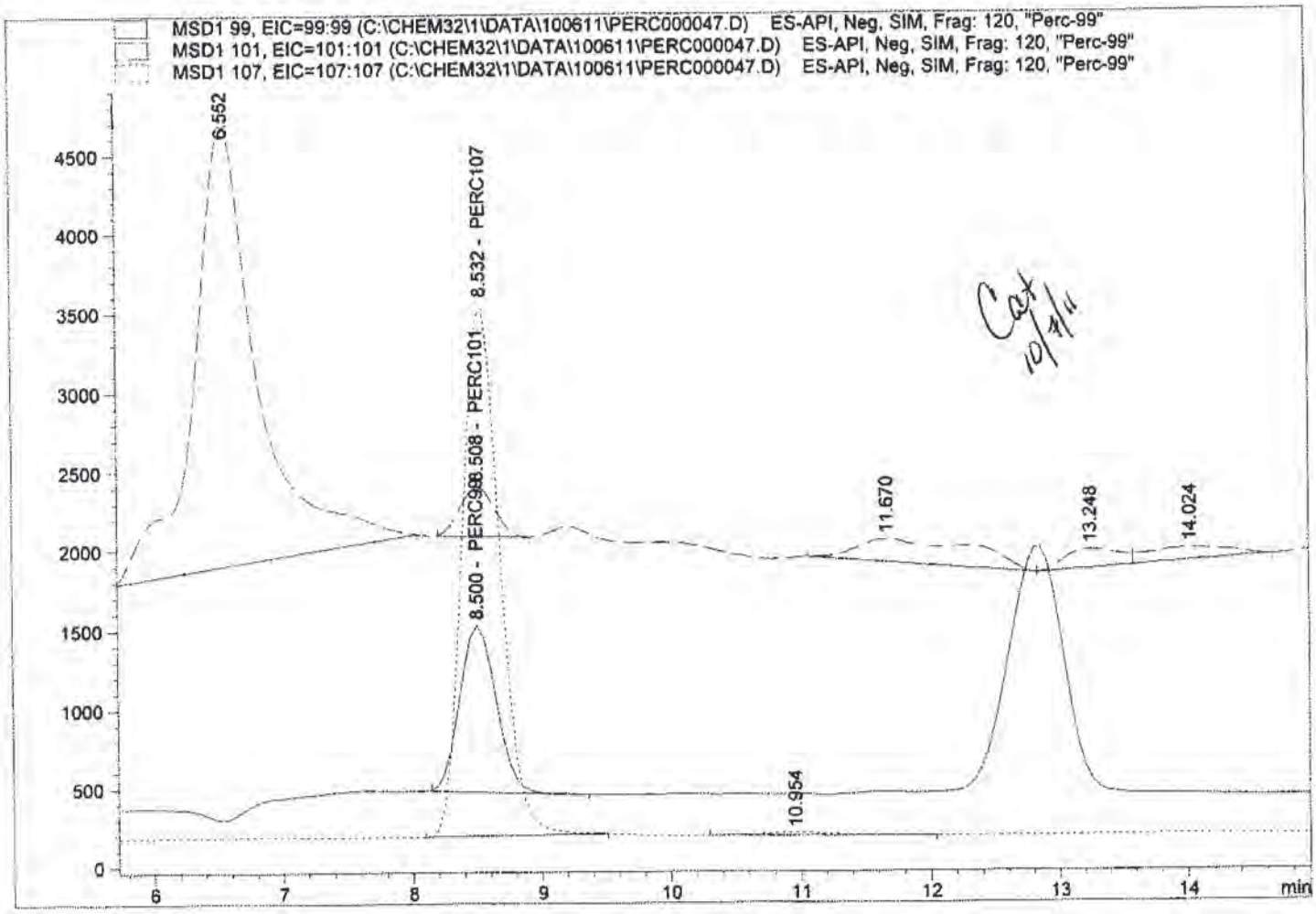
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

Acq. Operator	: CAT	Seq. Line :	47
Acq. Instrument	: Instrument 1	Location :	Vial 4
Injection Date	: 10/7/2011 4:49:33 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

==========

Acq. Operator : CAT
Seq. Line : 47
Acq. Instrument : Instrument 1
Location : Vial 4
Injection Date : 10/7/2011 4:49:33 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BB	1	2.07056e4	7.19491e-1	1.10312		PERC99

Totals without ISTD(s) : 1.10312

110070

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BV	1	5891.10547	2.45074	1.06906		PERC101

Totals without ISTD(s) : 1.06906

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.75246e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

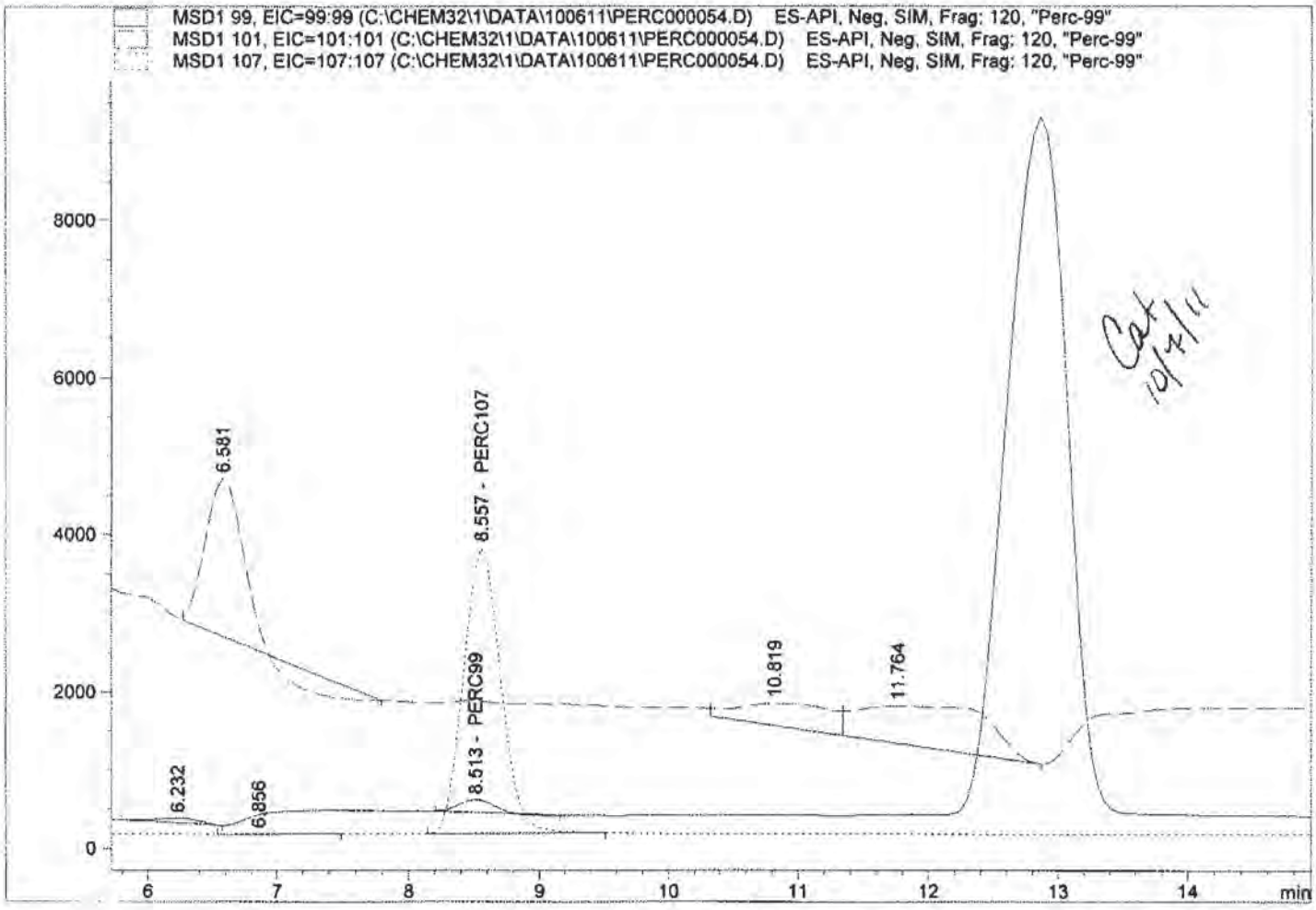
*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

==========

Acq. Operator : CAT
Seq. Line : 54
Acq. Instrument : Instrument 1
Location : Vial 43
Injection Date : 10/7/2011 7:01:00 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========



==========

Internal Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

==========

Acq. Operator : CAT
Seq. Line : 54
Acq. Instrument : Instrument 1
Location : Vial 43
Injection Date : 10/7/2011 7:01:00 AM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.513	BB	1	2916.82471	2.88025e-2	5.83854e-3		PERC99

Totals without ISTD(s) : 5.83854e-3

ND
No confirmation

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.19460e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

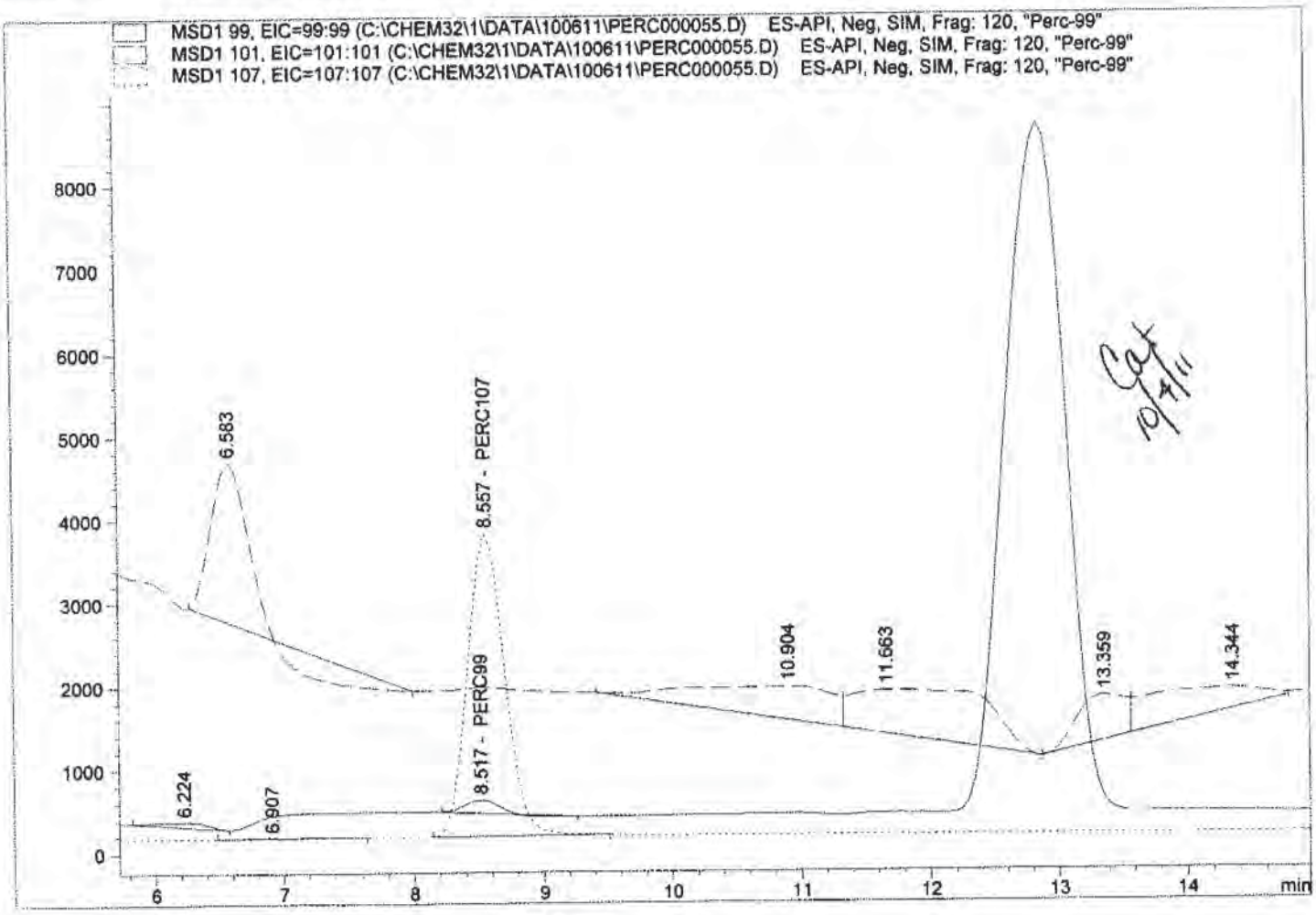
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

Acq. Operator	: CAT	Seq. Line	: 55
Acq. Instrument	: Instrument 1	Location	: Vial 44
Injection Date	: 10/7/2011 7:19:54 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

==========

Acq. Operator : CAT
Seq. Line : 55
Acq. Instrument : Instrument 1
Location : Vial 44
Injection Date : 10/7/2011 7:19:54 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.517	BB	1	2730.33813	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.17396e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

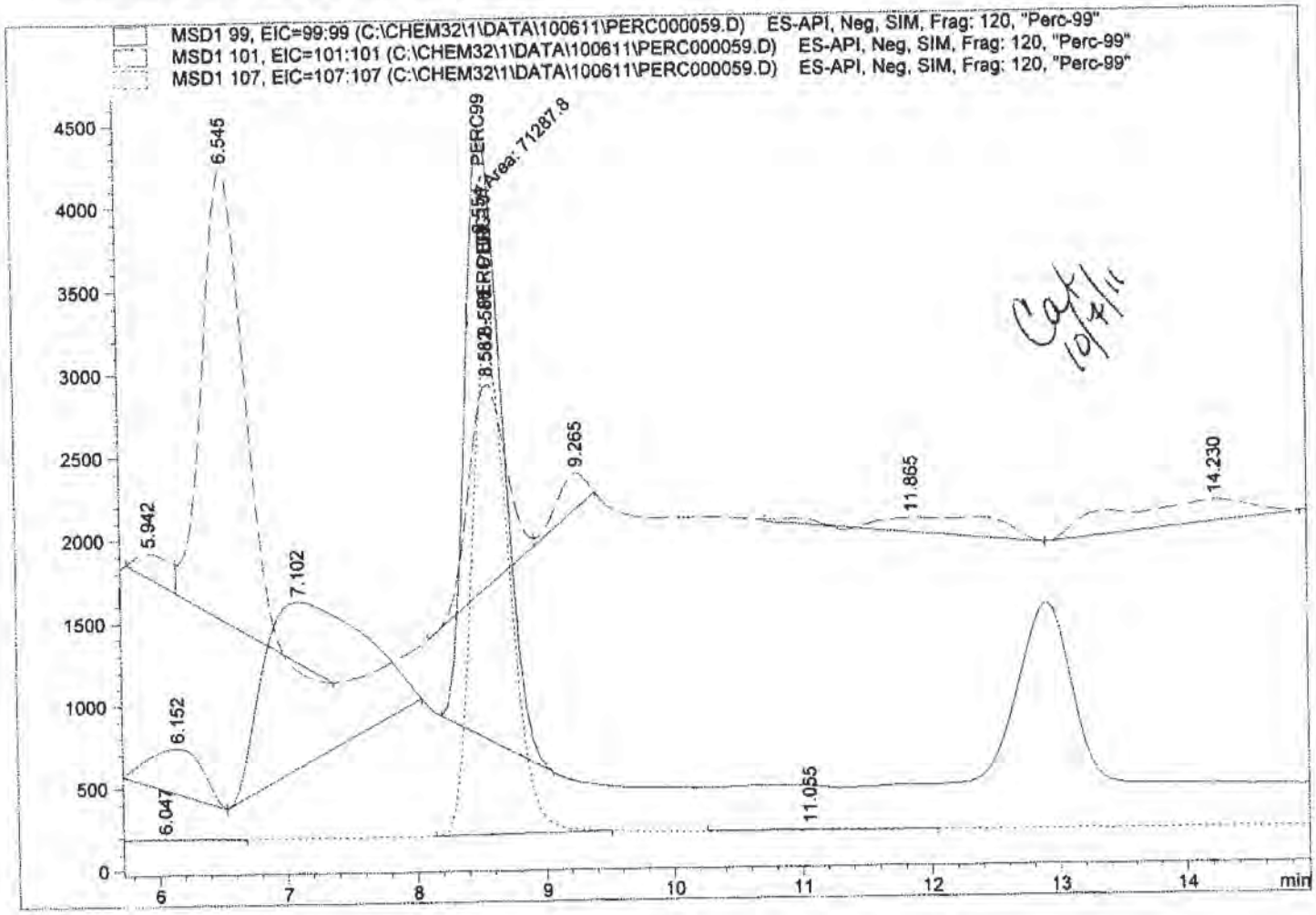
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator	: CAT	Seq. Line :	59
Acq. Instrument	: Instrument 1	Location :	Vial 3
Injection Date	: 10/7/2011 8:34:59 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Cat 10/4/11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator	: CAT	Seq. Line :	59
Acq. Instrument	: Instrument 1	Location :	Vial 3
Injection Date	: 10/7/2011 8:34:59 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.554	MM	1	7.12878e4	7.97592e-1	4.74319		PERC99

Totals without ISTD(s) : 4.74319

94.9%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.582	BV	1	2.41670e4	2.49260	5.02516		PERC101

Totals without ISTD(s) : 5.02516

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.588	BBA I	1	5.99371e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

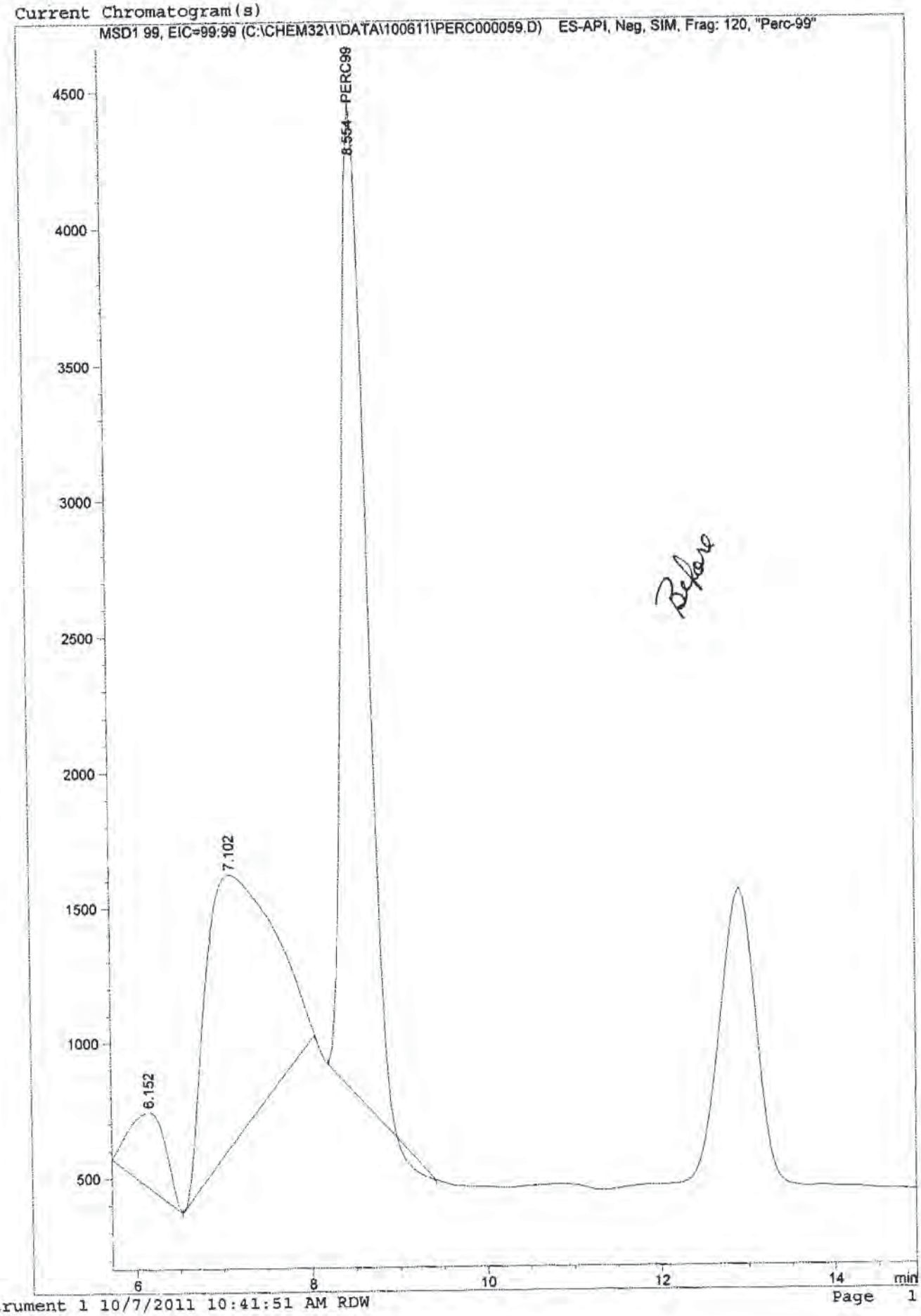
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



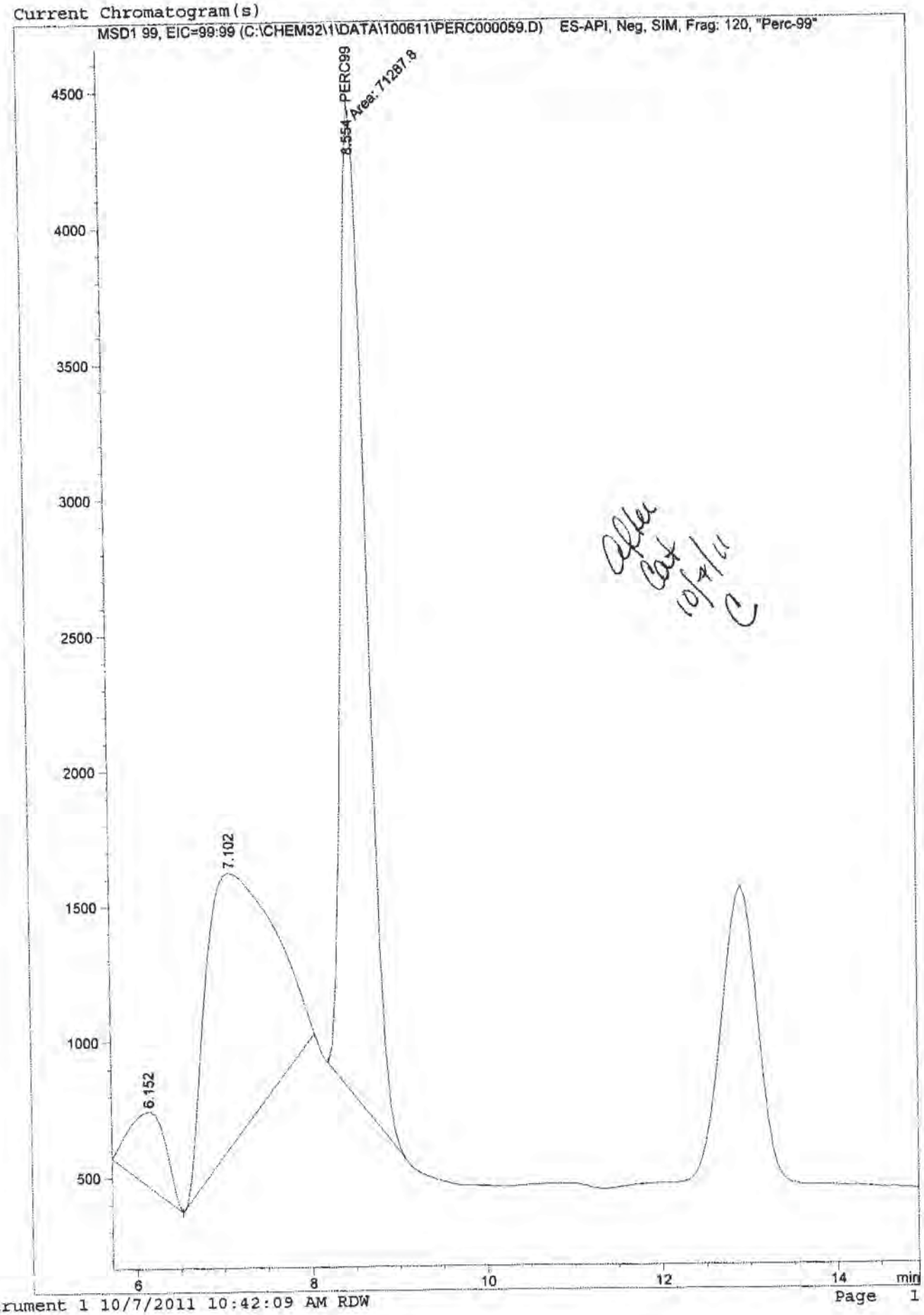
Instrument 1 10/7/2011 10:41:51 AM RDW

Page 1 of 1

1110004

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



Instrument 1 10/7/2011 10:42:09 AM RDW

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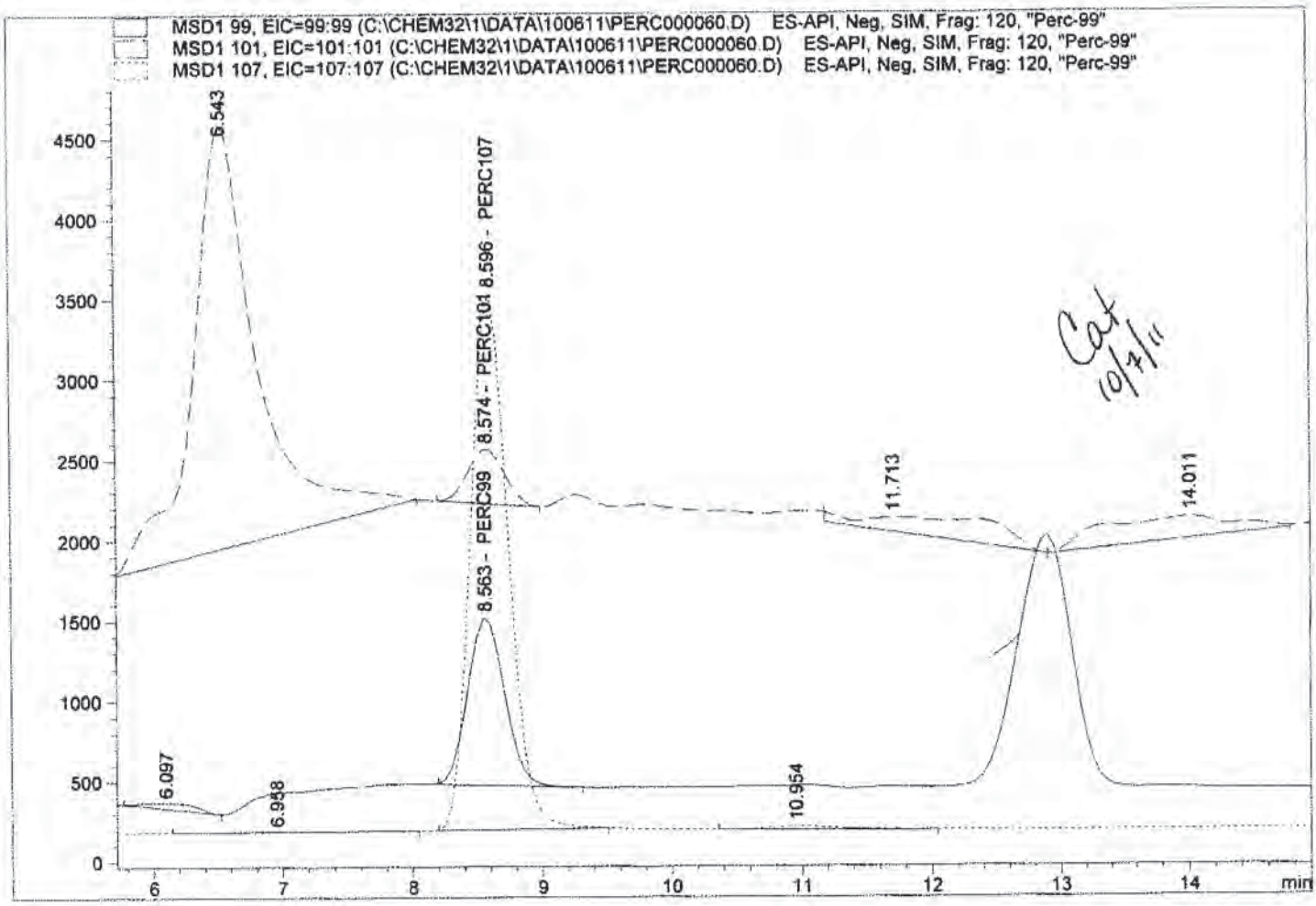
1110004

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

Acq. Operator	: CAT	Seq. Line	: 60
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/7/2011 8:53:36 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

```
==================================================================
Acq. Operator    : CAT                          Seq. Line :  60
Acq. Instrument  : Instrument 1                  Location : Vial 4
Injection Date   : 10/7/2011 8:53:36 AM               Inj :   1
                                               Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed     : 10/7/2011 9:38:25 AM by RDW
                   (modified after loading)
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.563	BB	1	2.06219e4	7.20448e-1	1.11472		PERC99

Totals without ISTD(s) : 1.11472

11/07/0

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.574	BV	1	6635.93799	2.45736	1.22350		PERC101

Totals without ISTD(s) : 1.22350

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.596	BBA I	1	6.66402e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water

Prepared using: GCLC - LCMS_PREP6850_W

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109176-02	-	LCMS_PERC_6850	10/05/2011	0.5	10					NA	
1109176-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-02	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-04	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-05	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109193-06	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-07	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-08	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-09	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-10	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-11	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109194-01	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-03	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1110002-01	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1110004-01	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	
1110004-02	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	FIELD FILTERED
1110010-01	-	LCMS_PERC_6850	10/05/2011	0.025	10					NA	
1110010-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1J05023-BLK1		QC	10/05/2011	10	10					NA	
1J05023-BS1		QC	10/05/2011	10	10	1I0443		200		NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

83

1110004

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water

Prepared using: GCLC - LCMS_PREP6850_W

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J05023-MS1		QC	10/05/2011	10	10	11I0443	1109176-02	200		NA	
1J05023-MSD1		QC	10/05/2011	10	10	11I0443	1109176-02	200		NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

ANALYTICAL SUMMARY DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 32

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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5	Data for SW6850 Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	13

Sample Delivery Group Case Narrative

Receipt Information

The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision

This is an original submittal of the final report package.

Analytical Information

All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:

The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:

No anomalies or deviations are noted.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

1110004

Lab ID #	Sample ID	Collection Date	Time	Sampled By	Matrix	Total # of Bottles	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SLCMS8850PRCHLT 6850 Perchlorate (Total)	(Dissolved)	LAB USE ONLY
1X	-01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	9/30 10.1.11	4 Reynald Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

1110004 Summ Package

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 Degrees Celsius + correction factor 1.6 = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C
Custody Seals Yes Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.307662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV3

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV4

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV5

Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX 407-425-0707
www.accutest.com

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	SLCMS6850PRCHLT 6850 Perchlorate	(Total)	(Dissolved)	LAB USE ONLY
1X	1110004 -01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X		
1XF	02 MA02 MW001D	09/28/11	10:28		GW	1		X								X		X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By/Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 0930	4 Reynaldo Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6* = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

APPENDIX F

Chemical Analytical Program

(Data Validation Reports)

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Data Validation Report

Melrose AFB Semi-annual

Trinity Analysis & Development Corp

SDG: 211050426 Date: July 22, 2011

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: July 22, 2011

Sample Delivery Group: 211050426

Project Name: Melrose AFB Semi-Annual

Data validation personnel: Dana Hebert and Mike Stewart

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Dana Hebert Date: July 22, 2011

INTRODUCTION:

SDG: 211050426
Project Name: Melrose AFB Semi-Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received one data package containing the results for fourteen field samples, two field duplicates and one equipment blank. Level 3 Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review* and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MWL6	21105190401	05/18/2011 14:30	[1-12]
MWQ-2	21105042611	05/05/2011 9:26	[1-12]
MWQ-3	21105042601	05/03/2011 9:15	[1-12]
MWQ-4	21105042602	05/03/2011 10:18	[1-12]
MWQ-5	21105042603	05/03/2011 11:57	[1-12]
MWQ-5-DUP	21105042604	05/03/2011 11:57	[1-12]
MWQ-6	21105042605	05/03/2011 13:12	[1-12]
MWQ-7	21105042606	05/03/2011 13:53	[1-12]
MWQ-10	21105042607	05/03/2011 15:23	[1-12]
MWQ-14	21105042616	05/13/2011 12:31	[1-12]
MWQ-18	21105042615	05/12/2011 12:40	[1-12]
MWQ-19	21105042614	05/12/2011 9:50	[1-12]
MWQ-20	21105042620	05/17/2011 13:22	[1-12]
MWQ-20-DUP	21105042621	05/17/2011 13:22	[1-12]
MWQ-21	21105042613	05/11/2011 13:05	[1-12]
MWQ-22	21105042612	05/11/2011 11:01	[1-12]
EB2	21105042622	05/18/2011 10:30	[1-12]

Analyses Performed Codes:

[1] TAL Metals (total) – SW-846 6010C
[2] Mercury (total) – SW-846 7470A
[3] TAL Metals (Dissolved) – SW-846 6010C
[4] Mercury (Dissolved) – SW-846 7470A
[5] Sulfate and Chloride – EPA 300.0
[6] Nitrate – EPA 353.2
[7] Nitrite – EPA 353.2
[8] Total Cyanide – SW-846 9012A

[9] Total Alkalinity – SM 2320B
[10] Total Dissolved Solids – SM 2540C
[11] Hexavalent Chromium – SW-846 7196A
[10] TAL Metals (total) – SW-846 6010C
[12] Perchlorate – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

A resubmission was requested for missing blank data. The laboratory provided the data on 07/12/2011.

Due to database structure and reporting constraints, eDATApro created secondary lab sample IDs for the dissolved metals analyses and results. A “D” was appended to the lab sample IDs for these analyses.

The RPD values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method EPA 300.0 – Sulfate and Chloride

The matrix spike/matrix spike duplicate for analytical batch 456395 was analyzed on sample MWQ-18 rather than MWQ14 as requested on the chain-of-custody (COC).

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

III. Method EPA 353.2 – Nitrate and Nitrite

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IV. Method SW-846 9012B – Total Cyanide

Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated “UJ”.

V. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VI. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VII. Method SW-846 6860 – Perchlorate

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The use of alternate volumes in the preparation of several samples was required due to the high conductivity of the samples. Reporting limits were adjusted accordingly.

Recovery in the matrix spike duplicate fortification of sample MWQ-14 exceeded upper acceptance criteria. The matrix spike and associated LCS recoveries were acceptable; therefore, no qualification was made based on this non-conformance. The laboratory qualified these results with a "N". This qualifier was removed during the validation review.

VIII. Method SW-846 7196A – Hexavalent Chromium (total)

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

Sample MWQ-3 was received at the laboratory after expiration of the 24-hour holding time. Samples MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, MWQ-7 and MWQ-19 were received within the hold-time, but were not processed through receiving prior to expiration of the holding time. All samples analyzed outside the 24-hour hold-time were non-detect and therefore qualified as estimated "UJ".

IX. Method SW-846 6010C – TAL metals (total)

Recovery of Zinc in the low-level check standard (CRDL) associated with sample MWL6 exceeded lower acceptance criteria. The sample was reanalyzed with a similar low CRDL. The sample result for zinc was more than 2X the reporting limit; therefore, no qualification was necessary.

Measurable quantities of Arsenic, Cadmium and Manganese were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Antimony and Lead were observed at a concentration less than the laboratory reporting limit (RL) in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Cadmium was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Arsenic, Cadmium, Copper and Manganese were observed at a concentration less than the laboratory reporting limit (RL) in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

X. Method SW-846 6010C – TAL metals (dissolved)

Please note that the results for some analytes in several samples were reported with higher concentrations from the "dissolved" analyses than from the "total" analyses. No result qualifications were applicable.

Measurable quantities of Arsenic and Cadmium were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Antimony and Lead were observed at a concentration less than the laboratory reporting limit (RL) in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Cadmium was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Cadmium, Copper, Manganese, Nickel and Zinc were observed at a concentration less than the laboratory reporting limit (RL) in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

The % difference reported for the serial dilution of sample MWL6 was greater than 10% for Manganese. The result in the parent sample was qualified as estimated "J",

XI. Method SW-846 7470A – Mercury (total)

Recovery in the matrix spike duplicate fortification of sample MWQ-14 exceeded lower acceptance criteria. The matrix spike and associated LCS recoveries were acceptable; therefore, no qualification was made based on this non-conformance.

XII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Antimony	MWQ-3	5.7	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-4	5.07	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-5	4.74	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-7	5.98	B	60	U	Blank contamination.
Arsenic	MWL6	5.89	B	10	U	Blank contamination.
Arsenic	MWQ-10	8.34	B	10	U	Blank contamination.
Arsenic	MWQ-18	6.33	B	10	U	Blank contamination.
Arsenic	MWQ-21	6.1	B	10	U	Blank contamination.
Arsenic	MWQ-5	9.27	B	10	U	Blank contamination.
Arsenic	MWQ-5-DUP	7.82	B	10	U	Blank contamination.
Arsenic	MWQ-7	3.8	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-10	7.83	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-5	7.43	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-5-DUP	8.16	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-6	7.16	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-7	8.35	B	10	U	Blank contamination.
Cadmium	MWQ-10	0.73	B	5	U	Blank contamination.
Cadmium	MWQ-18	0.65	B	5	U	Blank contamination.
Cadmium	MWQ-19	1.11	B	5	U	Blank contamination.
Cadmium	MWQ-20	1.93	B	5	U	Blank contamination.
Cadmium	MWQ-20-DUP	1.93	B	5	U	Blank contamination.
Cadmium	MWQ-21	0.51	B	5	U	Blank contamination.
Cadmium	MWQ-3	0.44	B	5	U	Blank contamination.
Cadmium	MWQ-4	0.36	B	5	U	Blank contamination.
Cadmium	MWQ-5	0.76	B	5	U	Blank contamination.
Cadmium	MWQ-5-DUP	0.78	B	5	U	Blank contamination.
Cadmium	MWQ-6	0.72	B	5	U	Blank contamination.
Cadmium	MWQ-7	0.87	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-10	0.86	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-18	1.01	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-19	1.27	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-2	0.49	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-20	2.01	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-20-DUP	2.08	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-21	0.69	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-3	0.83	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-4	0.94	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-5	1.1	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-5-DUP	0.96	B	5	U	Blank contamination.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Cadmium (Dissolved)	MWQ-6	0.96	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-7	1.35	B	5	U	Blank contamination.
Copper	MWQ-22	7.72	B	10	U	Blank contamination.
Copper	MWQ-5	9.64	B	10	U	Blank contamination.
Copper	MWQ-6	7.09	B	10	U	Blank contamination.
Copper	MWQ-7	8.93	B	10	U	Blank contamination.
Copper (Dissolved)	MWL6	9.01	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-22	6.97	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-4	9.83	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-5	8.59	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-5-DUP	8.54	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-6	7.23	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-7	8.81	B	10	U	Blank contamination.
Lead	MWQ-10	1.54	B	15	U	Blank contamination.
Lead	MWQ-4	2.79	B	15	U	Blank contamination.
Lead	MWQ-5-DUP	4.06	B	15	U	Blank contamination.
Lead	MWQ-7	4.79	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-10	2.43	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-3	6.4	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-4	2.61	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-5-DUP	5.28	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-6	2.42	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-7	3.4	B	15	U	Blank contamination.
Manganese	MWQ-14	13.8	B	15	U	Blank contamination.
Manganese	MWQ-18	5.27	B	15	U	Blank contamination.
Manganese	MWQ-5-DUP	2.01	B	15	U	Blank contamination.
Manganese (Dissolved)	MWL6	158		158	J	Serial dilution >10%.
Manganese (Dissolved)	MWQ-18	9.28	B	15	U	Blank contamination.
Nickel (Dissolved)	MWQ-2	1.89	B	40	U	Blank contamination.
Zinc (Dissolved)	MWL6	4.65	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-10	4.86	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-4	7.38	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-6	5.61	B	20	U	Blank contamination.
Chromium VI	MWQ-19	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-3	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-4	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-5	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-5-DUP	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-6	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-7	2.8	U	2.8	UJ	Hold-time exceedence.
Total Cyanide	MWL6	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-10	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-14	0.0006	U	0.0006	UJ	MS/MSD recoveries low.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Total Cyanide	MWQ-18	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-19	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-2	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-20	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-20-DUP	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-21	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-22	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-3	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-4	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-5	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-5-DUP	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-6	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-7	0.0006	U	0.0006	UJ	MS/MSD recoveries low.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:40 PM**	1	60	5.7	B	60	U	ug/L	*
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**13.5**		**13.5**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.44	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**30200**		**30200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**10.4**		**10.4**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**33100**		**33100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	50	**3.84**	**B**	**3.84**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	1000	**81700**		**81700**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	20	**104**		**104**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:11 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**27.2**		**27.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**29600**		**29600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**10.8**		**10.8**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	6.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**32300**		**32300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	50	**4.54**	**B**	**4.54**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	1000	**80300**		**80300**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	20	**100**		**100**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:46 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:46 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11**		**11**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**50.4**		**50.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.36	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11.8**		**11.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**19400**		**19400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:46 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	1000	**55900**		**55900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:46 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**79.8**		**79.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**7.24**	**B**	**7.24**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:14 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	60	5.07	B	60	U	ug/L	*
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**46.2**		**46.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.94	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	9.83	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2.61	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**19200**		**19200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	1000	**56400**		**56400**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	20	**78.8**		**78.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	7.38	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:52 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.27	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.76	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**42500**		**42500**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.64	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**23100**		**23100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:52 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	1000	**65200**		**65200**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**84.3**		**84.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:18 AM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	60	4.74	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	7.43	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	10	**30.3**		**30.3**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	1.1	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	8.59	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**21600**		**21600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	500	**3240**		**3240**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	1000	**63600**		**63600**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	20	**80.8**		**80.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:58 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:58 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	7.82	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**34.5**		**34.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.78	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**41600**		**41600**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	4.06	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**22000**		**22000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	2.01	B	15	U	ug/L	*
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:58 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	500	**3130**		**3130**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	1000	**64000**		**64000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:58 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**81.5**		**81.5**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**2.77**	**B**	**2.77**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:21 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**42000**		**42000**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.54	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	5.28	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**22300**		**22300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	500	**3180**		**3180**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	1000	**64800**		**64800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	20	**83.7**		**83.7**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**10.2**		**10.2**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**38.5**		**38.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.72	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	7.09	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**19700**		**19700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:05 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	500	**2120**		**2120**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**77.7**		**77.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:24 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	10	**34.6**		**34.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**40600**		**40600**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.23	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2.42	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**19300**		**19300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	500	**2610**		**2610**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	20	**78.4**		**78.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	5.61	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:11 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:11 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	3.8	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	10	**33.7**		**33.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.87	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	8.93	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	4.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**24500**		**24500**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:11 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	500	**2690**		**2690**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	1000	**72000**		**72000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	20	**76.8**		**76.8**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:30 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	60	5.98	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.35	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**29.5**		**29.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	1.35	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**57200**		**57200**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.81	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	3.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**24600**		**24600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	500	**2650**		**2650**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	40	**6.12**	**B**	**6.12**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	1000	**72700**		**72700**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	20	**74.4**		**74.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 1:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 1:48 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	8.34	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**124**		**124**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.73	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**53600**		**53600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**12.3**		**12.3**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	1.54	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**40400**		**40400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	50	**3.77**	**B**	**3.77**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	500	**5950**		**5950**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	1000	**21100**		**21100**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 1:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**68.8**		**68.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**3.3**	**B**	**3.3**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 10:55 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	7.83	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**123**		**123**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.86	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**54300**		**54300**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**1.07**	**B**	**1.07**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**12.2**		**12.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2.43	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**40500**		**40500**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	50	**4.87**	**B**	**4.87**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	500	**6090**		**6090**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	1000	**21500**		**21500**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	20	**69.8**		**69.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	4.86	B	20	U	ug/L	*
7439-97-6	**Mercury (Dissolved)**	**SW-846 7470A**		**1**	0.2	**0.0921**	**B**	**0.0921**	**B**	**ug/L**	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 8:52 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:52 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 4:05 PM**	**1**	10	**34.3**		**34.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**187000**		**187000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**2.53**	**B**	**2.53**	**B**	**ug/L**
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**23.9**		**23.9**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**52.8**	**B**	**52.8**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:52 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**124000**		**124000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	15	**82.9**		**82.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	50	**20.6**	**B**	**20.6**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	40	**1.6**	**B**	**1.6**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	500	**11600**		**11600**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:52 PM**	1	40	4.34	U	4.34	U	ug/L
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:17 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:52 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:52 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**73.5**		**73.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**394**		**394**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/16/2011 1:49 PM**	1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**3**	**B**	**3**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**28.2**		**28.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.49	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**204000**		**204000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**2.25**	**B**	**2.25**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**22.2**		**22.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**135000**		**135000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	15	**50.1**		**50.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	50	**22.6**	**B**	**22.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	1.89	B	40	U	ug/L	*
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	500	**12600**		**12600**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:29 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**71.6**		**71.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**426**		**426**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 4:23 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:23 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:22 PM**	**1**	10	**40.8**		**40.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**37300**		**37300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	7.72	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**147**		**147**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:23 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**16200**		**16200**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	15	**426**		**426**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	50	**11.1**	**B**	**11.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	1000	**315000**		**315000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:23 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:23 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**29.4**		**29.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**7.64**	**B**	**7.64**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	10	**37.6**		**37.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**38500**		**38500**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	6.97	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**142**		**142**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**17400**		**17400**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	15	**440**		**440**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	50	**12**	**B**	**12**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	500	**3340**		**3340**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	40	**5**	**B**	**5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	1000	**319000**		**319000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	20	**32.2**		**32.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	200	**1100**		**1100**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:30 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	6.1	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:30 PM**	**1**	10	**48.9**		**48.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.51	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**122000**		**122000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**4.41**	**B**	**4.41**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**15**		**15**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**669**		**669**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:30 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	15	**19.9**		**19.9**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	50	**9.63**	**B**	**9.63**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**1.27**	**B**	**1.27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**11**	**B**	**11**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	1000	**184000**		**184000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**99.7**		**99.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**15.6**	**B**	**15.6**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:43 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	200	**272**		**272**		**ug/L**	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**9.41**	**B**	**9.41**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**32.6**		**32.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**120000**		**120000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**1.95**	**B**	**1.95**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**127**		**127**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**57700**		**57700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	50	**9.72**	**B**	**9.72**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	500	**9970**		**9970**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	40	**9.9**	**B**	**9.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	1000	**181000**		**181000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**5.29**	**B**	**5.29**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	20	**98.8**		**98.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	200	**72.4**	**B**	**72.4**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:37 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:37 PM**	**1**	10	**26**		**26**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	1.11	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**286000**		**286000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**20.1**		**20.1**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**2820**		**2820**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:37 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	15	**436**		**436**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/24/2011 4:37 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:14 AM**	**5**	5000	**1100000**		**1100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:37 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:37 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**64.3**		**64.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**865**		**865**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:49 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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B = Estimated (between MDL and RL)
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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**3.75**	**B**	**3.75**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	1.27	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**285000**		**285000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**18**		**18**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**2590**		**2590**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	15	**432**		**432**		**ug/L**	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:48 PM**	**5**	5000	**1110000**		**1110000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**64.6**		**64.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**615**		**615**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	200	**153**	**B**	**153**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:44 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	6.33	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:34 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.65	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**41200**		**41200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**814**		**814**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**168**		**168**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	15	**1.79**	**B**	**1.79**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**18700**		**18700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 4:44 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	40	**6.94**	**B**	**6.94**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	500	**2770**		**2770**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:44 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	1000	**65500**		**65500**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:44 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:44 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**78.6**		**78.6**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**52.4**		**52.4**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**7.34**	**B**	**7.34**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**33.8**		**33.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	1.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**44400**		**44400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**554**		**554**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**20200**		**20200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	9.28	B	15	U	ug/L	*
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	50	**11.6**	**B**	**11.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	500	**2870**		**2870**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	1000	**68800**		**68800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**79.9**		**79.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**38.2**		**38.2**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	200	**60.6**	**B**	**60.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 3:20 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:13 PM**	**1**	10	**15.3**		**15.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**65900**		**65900**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**16.1**		**16.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**61800**		**61800**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	13.8	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	50	**25.4**	**B**	**25.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**1.18**	**B**	**1.18**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	500	**11400**		**11400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**26.3**	**B**	**26.3**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 11:38 PM**	**5**	5000	**628000**		**628000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	20	**59**		**59**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:24 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616D**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**3.99**	**B**	**3.99**	**B**	**ug/L**
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**11.9**		**11.9**		**ug/L**
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**66700**		**66700**		**ug/L**
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**14.5**		**14.5**		**ug/L**
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**62400**		**62400**		**ug/L**
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	50	**26**	**B**	**26**	**B**	**ug/L**
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	500	**11400**		**11400**		**ug/L**
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	40	**23.3**	**B**	**23.3**	**B**	**ug/L**
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:13 PM**	**5**	5000	**633000**		**633000**		**ug/L**
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	20	**58.1**		**58.1**		**ug/L**
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	2.72	U	2.72	U	ug/L
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L

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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	200	**261**		**261**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	60	**20.3**	**B**	**20.3**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:43 PM**	**1**	10	**26.3**		**26.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**556000**		**556000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**23.2**		**23.2**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**241**		**241**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:51 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**311000**		**311000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	15	**967**		**967**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	50	**17**	**B**	**17**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	500	**16200**		**16200**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:21 AM**	**25**	25000	**2970000**		**2970000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:51 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**64**		**64**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**2370**		**2370**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:56 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	60	**6**	**B**	**6**	**B**	**ug/L**	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.5**		**21.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	5	2.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**544000**		**544000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
7440-48-4	**Cobalt (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**1.1**	**B**	**1.1**	**B**	**ug/L**	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.3**		**21.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**71.1**	**B**	**71.1**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**306000**		**306000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	15	**934**		**934**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	500	**15700**		**15700**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:56 PM**	**25**	25000	**2780000**		**2780000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**64.1**		**64.1**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**2190**		**2190**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	200	**285**		**285**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	60	**4.8**	**B**	**4.8**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:50 PM**	**1**	10	**27.4**		**27.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**574000**		**574000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**271**		**271**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**321000**		**321000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	15	**994**		**994**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	50	**17.3**	**B**	**17.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:28 AM**	**25**	25000	**3050000**		**3050000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**1.73**	**B**	**1.73**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**63.4**		**63.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**2410**		**2410**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:59 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	60	**4.33**	**B**	**4.33**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	2.08	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**554000**		**554000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**19.9**		**19.9**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**66.2**	**B**	**66.2**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**312000**		**312000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	15	**955**		**955**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	50	**16.6**	**B**	**16.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	500	**16000**		**16000**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 11:04 PM**	**25**	25000	**2850000**		**2850000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**64.2**		**64.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**2240**		**2240**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	200	**69.7**	**B**	**69.7**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/26/2011 6:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	5.89	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**24.1**		**24.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/31/2011 3:55 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/26/2011 6:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**1.74**	**B**	**1.74**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**7450**		**7450**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**2.5**	**B**	**2.5**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**33800**		**33800**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**265**		**265**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/26/2011 6:12 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**1.09**	**B**	**1.09**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	500	**5470**		**5470**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**9.06**	**B**	**9.06**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	1000	**69600**		**69600**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/31/2011 3:55 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/26/2011 6:12 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	20	**69.9**		**69.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/31/2011 3:55 PM**	**1**	20	**93.6**		**93.6**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:13 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401D**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**20.8**		**20.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	9.01	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**566**		**566**		**ug/L**	
7439-92-1	**Lead (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**1.9**	**B**	**1.9**	**B**	**ug/L**	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**33700**		**33700**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**158**		**158**	**J**	**ug/L**	*
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	500	**5560**		**5560**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	40	**8.02**	**B**	**8.02**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	1000	**67800**		**67800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/31/2011 2:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	20	**59.3**		**59.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	20	4.65	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105190401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	5	107		107		mg/L	
Sulfate	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	10	216		216		mg/L	
Method: EPA 353.2										
Nitrate	**05/18/2011 2:30 PM**	**05/19/2011 4:20 PM**	1	0.01	0.408		0.408		mg/L-	
Nitrite	**05/18/2011 2:30 PM**	**05/19/2011 3:25 PM**	1	0.01	0.013		0.013		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/18/2011 2:30 PM**	**05/20/2011 7:23 AM**	1	1	129		129		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/18/2011 2:30 PM**	**05/19/2011 2:10 PM**	1	10	658		658		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/18/2011 2:30 PM**	**05/19/2011 10:09 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/18/2011 2:30 PM**	**05/23/2011 11:14 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-16A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/18/2011 2:30 PM**	**05/31/2011 12:17 PM**	1	0.000594	0.00994	N	0.00994		mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-2**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042611**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	100	3310		3310		mg/L	
Sulfate	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	200	1350		1350		mg/L	
Method: EPA 353.2										
Nitrate	**05/05/2011 9:26 AM**	**05/06/2011 3:28 PM**	1	0.01	0.244		0.244		mg/L-	
Nitrite	**05/05/2011 9:26 AM**	**05/06/2011 4:06 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/05/2011 9:26 AM**	**05/09/2011 11:15 AM**	1	1	83.1		83.1		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/05/2011 9:26 AM**	**05/06/2011 1:15 PM**	1	10	7120		7120		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/05/2011 9:26 AM**	**05/06/2011 9:36 AM**	1	10	3	B	3	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/05/2011 9:26 AM**	**05/13/2011 4:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-2**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-08A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/05/2011 9:26 AM**	**05/27/2011 1:54 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

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R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-3**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042601**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	5	68.3		68.3		mg/L	
Sulfate	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	10	150		150		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 9:15 AM**	**05/04/2011 2:51 PM**	1	0.01	0.738		0.738		mg/L-	
Nitrite	**05/03/2011 9:15 AM**	**05/04/2011 3:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 9:15 AM**	**05/04/2011 3:38 PM**	1	1	145		145		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 9:15 AM**	**05/04/2011 2:40 PM**	1	10	430		430		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 9:15 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 9:15 AM**	**05/06/2011 2:06 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-3**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-01A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 9:15 AM**	**05/27/2011 12:07 PM**	1	0.0003	0.00731	N	0.00731		mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-4**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042602**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	1	17.6		17.6		mg/L	
Sulfate	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	2	59		59		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 10:18 AM**	**05/04/2011 3:14 PM**	5	0.05	3.43		3.43		mg/L-	
Nitrite	**05/03/2011 10:18 AM**	**05/04/2011 3:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 10:18 AM**	**05/04/2011 3:38 PM**	1	1	177		177		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 10:18 AM**	**05/04/2011 2:40 PM**	1	10	300		300		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 10:18 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 10:18 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-4**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-02A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 10:18 AM**	**05/27/2011 12:25 PM**	1	0.0003	0.00308	N	0.00308		mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042603**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	2	21.8		21.8		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	4	90.8		90.8		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:18 PM**	10	0.1	5.53		5.53		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:46 PM**	1	0.01	0.004	B	0.004	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	175		175		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	374		374		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-03A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 12:43 PM**	1	0.0003	0.003	N	0.003		mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042604**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	2	21.5		21.5		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	4	91.5		91.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:19 PM**	10	0.1	5.19		5.19		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:48 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	170		170		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	380		380		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:09 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-04A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 1:00 PM**	1	0.0003	0.00306	N	0.00306		mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042605**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	2	21.4		21.4		mg/L	
Sulfate	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	4	85.5		85.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:12 PM**	**05/04/2011 3:20 PM**	5	0.05	3.39		3.39		mg/L-	
Nitrite	**05/03/2011 1:12 PM**	**05/04/2011 3:49 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:12 PM**	**05/04/2011 3:38 PM**	1	1	160		160		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:12 PM**	**05/04/2011 2:40 PM**	1	10	352		352		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:12 PM**	**05/04/2011 2:15 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:12 PM**	**05/06/2011 2:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-05A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:12 PM**	**05/27/2011 1:18 PM**	1	0.0003	0.00398	N	0.00398		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-7**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042606**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	5	59.3		59.3		mg/L	
Sulfate	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	10	156		156		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:53 PM**	**05/04/2011 3:21 PM**	2	0.02	1.31		1.31		mg/L-	
Nitrite	**05/03/2011 1:53 PM**	**05/04/2011 3:50 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:53 PM**	**05/04/2011 3:38 PM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:53 PM**	**05/04/2011 2:40 PM**	1	10	480		480		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:53 PM**	**05/04/2011 2:19 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:53 PM**	**05/06/2011 2:11 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-7**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-06A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:53 PM**	**05/27/2011 1:36 PM**	1	0.0003	0.00584	N	0.00584		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042607**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	2	29.3		29.3		mg/L	
Sulfate	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	4	60.6		60.6		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 3:23 PM**	**05/04/2011 3:23 PM**	20	0.2	7.07		7.07		mg/L-	
Nitrite	**05/03/2011 3:23 PM**	**05/04/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	216		216		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	390		390		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 3:23 PM**	**05/04/2011 2:13 PM**	1	10	5	B	5	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 3:23 PM**	**05/06/2011 2:14 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
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J = Estimated
R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-07A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 3:23 PM**	**05/26/2011 8:53 PM**	1	0.0003	0.00053	N	0.00053		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042610**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	220		220		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	388		388		mg/L

DF = Dilution Factor
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J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042616**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	50	715		715		mg/L	
Sulfate	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	100	994		994		mg/L	
Method: EPA 353.2										
Nitrate	**05/13/2011 12:31 PM**	**05/14/2011 10:31 AM**	5	0.05	1.59		1.59		mg/L-	
Nitrite	**05/13/2011 12:31 PM**	**05/14/2011 10:46 AM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	133		133		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2670		2670		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/13/2011 12:31 PM**	**05/14/2011 10:40 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/13/2011 12:31 PM**	**05/23/2011 10:59 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
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B = Estimated (between MDL and RL)
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R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-13A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:31 PM**	**05/31/2011 12:52 PM**	1	0.0003	0.00452	N	0.00452		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ14-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042619**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	137		137		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2590		2590		mg/L

DF = Dilution Factor
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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-18**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042615**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	5	40.3		40.3		mg/L	
Sulfate	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	10	110		110		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 12:40 PM**	**05/13/2011 12:05 PM**	1	0.01	0.372		0.372		mg/L-	
Nitrite	**05/12/2011 12:40 PM**	**05/13/2011 12:24 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 12:40 PM**	**05/16/2011 1:32 PM**	1	1	161		161		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 12:40 PM**	**05/16/2011 12:50 PM**	1	10	520		520		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 12:40 PM**	**05/13/2011 11:05 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 12:40 PM**	**05/23/2011 10:58 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-18**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-12A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:40 PM**	**05/31/2011 11:24 AM**	1	0.000594	0.0108	N	0.0108		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-19**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042614**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	100	2050		2050		mg/L	
Sulfate	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	200	1530		1530		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 9:50 AM**	**05/13/2011 12:02 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/12/2011 9:50 AM**	**05/13/2011 12:20 PM**	1	0.01	0.007	B	0.007	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 9:50 AM**	**05/16/2011 1:32 PM**	1	1	302		302		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 9:50 AM**	**05/16/2011 12:50 PM**	1	10	5500		5500		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 9:50 AM**	**05/13/2011 11:04 AM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 9:50 AM**	**05/23/2011 10:57 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-19**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-11A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/12/2011 9:05 AM**	**05/27/2011 2:47 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

DF = Dilution Factor
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J = Estimated
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042620**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	200	6010		6010		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	400	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:19 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:34 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	55.7		55.7		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	11900		11900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:16 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:12 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
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J = Estimated
R = Rejected
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-14A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:42 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042621**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	200	6090		6090		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	400	1480		1480		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:23 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:37 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	56.9		56.9		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	12000		12000		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:17 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:13 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-15A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:59 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-21**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042613**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	10	121		121		mg/L	
Sulfate	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	20	476		476		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 1:05 PM**	**05/12/2011 4:08 PM**	5	0.05	2.44		2.44		mg/L-	
Nitrite	**05/11/2011 1:05 PM**	**05/12/2011 4:22 PM**	1	0.01	0.008	B	0.008	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 1:05 PM**	**05/12/2011 10:43 AM**	1	1	244		244		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 1:05 PM**	**05/12/2011 3:30 PM**	1	10	900		900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 1:05 PM**	**05/12/2011 10:40 AM**	1	10	32		32		ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 1:05 PM**	**05/13/2011 4:31 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-21**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-10A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 1:05 PM**	**05/27/2011 2:29 PM**	1	0.0003	0.00827	N	0.00827		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042612**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	20	342		342		mg/L	
Sulfate	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	40	233		233		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 11:01 AM**	**05/12/2011 4:01 PM**	1	0.01	0.309		0.309		mg/L-	
Nitrite	**05/11/2011 11:01 AM**	**05/12/2011 4:18 PM**	1	0.01	0.011		0.011		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 11:01 AM**	**05/12/2011 10:43 AM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 11:01 AM**	**05/12/2011 3:30 PM**	1	10	936		936		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 11:01 AM**	**05/12/2011 10:39 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 11:01 AM**	**05/13/2011 4:30 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-09A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 11:01 AM**	**05/27/2011 2:11 PM**	1	0.0003	0.00148	N	0.00148		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	2405928	5-14-11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Con-tainers	Remarks:	Lab ID
									1
									2
									3
									4
									5
									6
									7
									8 DUP
									9 10

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Fedex	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2105[illegible]26	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32549
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 31 38

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MW02		7	X		X	X	X	X	X		X			* ii	~~1~~
GW	5/5/11	1223		✓	MA02 MW001D		12	X	X	X	X	X	X	X	X	X				~~11~~
GW	5/5/11	1516		✓	M114 MW004		12	X	X	X	X	X	X	X	X	X				~~12~~
	5/5/11	926			TB1		3													~~13~~
	5/5/11	926			TB2		3													~~14~~

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/6/11	[illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample in the website

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix1: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/11/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0071
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Mellrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALK / TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X	12	/
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X	13	

Turn Around Time: ☐ 24/48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	5/12/11	1500
FedEx		5/12/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SO = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504126	5/20/11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
									/
								14	
								15	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[illegible]	05/13/11	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

040 0214000172

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504 26	5/20/11

Report to:
Client:
Address:
Contact:
Phone:
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
								16	/
								17* Dup	
								18* 19	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedX		
Relinquished by: (Signature) FedX	Received by: (Signature) ACM	Date: 5/14/11	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * no Cl/SO4 MS/MSD batch QC on sample MW018

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

LAB COPY

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504276	5/20/11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Lab ID
								/

Remarks:
RSH 19 20
5/16/11 ~~20~~ 21

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed Ex		
Relinquished by: (Signature) Fed Ex	Received by: (Signature)	Date: 5/18/11	Time: 08 45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	2110584 26	
Client Name	Client #	Workorder #	Due Date

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
								2110519040 1	/
								2X22 RSM 6/14/11	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[illegible]	5/18/11	0555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

Data Validation Report

Melrose AFB Annual

Trinity Analysis & Development Corp

SDG: 211050608 Date: July 21, 2011

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: July 21, 2011

Sample Delivery Group: 211050608

Project Name: Melrose AFB Annual

Data validation personnel: Dana Hebert and Tony Duhon

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Anthony Duhon Date: July 21, 2011

INTRODUCTION:

SDG: 211050608
Project Name: Melrose AFB Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received one electronic data package containing the results for ten field samples, one field duplicate, one equipment rinsate and eight trip blanks. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review* and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MA02MW001D	21105060801	5/5/2011 12:23:00 PM	[1-14]
M114MW004	21105060802	5/5/2011 3:16:00 PM	[1-14]
TB1	21105060803	5/5/2011 9:26:00 AM	[1]
TB2	21105060804	5/5/2011 9:26:00 AM	[1]
M114MW002	21105060805	5/6/2011 11:35:00 AM	[1-14]
EB1	21105060806	5/6/2011 12:30:00 PM	[1-14]
M114MW003	21105060807	5/6/2011 2:30:00 PM	[1-14]
TB4	21105060808	5/6/2011	[1]
TB5	21105060809	5/6/2011	[1]
MA01MW001	21105060810	5/9/2011 2:16:00 PM	[1-14]
TB6	21105060814	5/9/2011	[1]
M114MW001	21105060815	5/9/2011 9:55:00 AM	[1-14]
M114MW001-DUP	21105060816	5/9/2011 9:55:00 AM	[1-14]
TB8	21105060817	5/10/2011	[1]
MA0MW004	21105060818	5/10/2011 11:11:00 AM	[1-14]
MA0MW003	21105060819	5/10/2011 1:20:00 PM	[1-14]
TB7	21105060820	5/10/2011	[1]
MA01MW002	21105170901	5/16/2011 9:35:00 AM	[1-14]
MWQ23	21105170902	5/16/2011 11:10:00 AM	[1-14]
TB9	21105170903	5/16/2011	[1]

Analyses Performed Codes:

[1] Volatile Organics – SW-846 8260B
[2] Explosives – SW-846 8330
[3] Sulfate and Chloride – EPA 300.0
[4] Nitrate – EPA 353.2
[5] Nitrite – EPA 353.2
[6] Total Cyanide – SW-846 9012B
[7] Total Alkalinity – SM 2320B
[8] Total Dissolved Solids – SM 2540C
[9] Hexavalent Chromium – SW-846 7196A

[10] TAL Metals (total) – SW-846 6010C
[11] Mercury (total) – SW-846 7470A
[12] TAL Metals (Dissolved) – SW-846 6010C
[13] Mercury (Dissolved) – SW-846 7470A
[14] Perchlorate – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

The laboratory transcribed field sample names which began with “MA0…” as “MAO…”. These sample names were corrected for this validation report. Due to database structure and reporting constraints, eDATApro created secondary lab sample IDs for the dissolved metals analyses and results. A “D” was appended to the lab sample IDs for these analyses.

The RPD values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method SW-846 8260B - Volatile Organic Analyses:

Recovery of Acetone in the continuing calibration verification sample leading the analyses of samples M114MW001, M114MW001-DUP, TB8, MA0MW004, MA0MW003, and TB7 exceeded lower acceptance criteria. Laboratory results of this analyte in these samples were modified to estimate (J, UJ). The laboratory qualified these target analytes with a “Q”. This qualifier was removed during the validation review.

A measurable quantity of Acetone was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB945623. The laboratory qualified associated results with “B”. This qualifier was removed from non-detect values. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

III. Method SW-846 8330 - Explosives

Recovery of target analyte HMX the LCS and LCSD samples from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a “Q”. This qualifier was removed during the validation review.

Recovery of numerous target analytes in the matrix spike and matrix spike duplicate fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.

IV. Method EPA 300.0 – Sulfate and Chloride

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

V. Method EPA 353.2 – Nitrate and Nitrite

A measurable quantity of Nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory results of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.

VI. Method SW-846 9012B – Total Cyanide

Recovery of Cyanide in the matrix spike fortification of preparation batch 456439 exceeded lower acceptance criteria. The parent sample was not selected from this delivery group, and all other QC recoveries were within acceptance criteria. No result qualifications were applied based upon this exceedence.

VII. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VIII. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IX. Method SW-846 7196A – Hexavalent Chromium

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

X. Method SW-846 6010C – TAL metals (total)

Recoveries of Calcium, Magnesium and Sodium in all matrix spike and matrix spike duplicate analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

A measurable quantity of Manganese was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of total analytes Barium, Copper, Manganese and Zinc were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to non-detect (U) at the corresponding RLs.

XI. Method SW-846 6010C – TAL metals (dissolved)

Measurable quantities of Barium (Dissolved) and Cadmium (Dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (Dissolved). Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Barium (Dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The Barium (Dissolved) result in sample EB1 was modified to non-detect (U) at the RL.

Measurable quantities of Aluminum (Dissolved), Arsenic (Dissolved), Cadmium (Dissolved), Copper (Dissolved) and Zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to non-detect (U) at the corresponding RLs.

Please note that the results for Calcium, Magnesium, Potassium and Sodium in several samples; Copper and Vanadium in sample MA01MW002; Selenium in sample MA02MW001D; and Manganese and Zinc in sample MWQ23 were reported with higher concentrations from the “dissolved” analyses than from the “total” analyses. No result qualifications were applicable.

XII. Method SW-846 7470A – Mercury (total)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIV. Method SW-846 6860 – Perchlorate

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The use of alternate volumes in the preparation of samples MA02MW001D, M114MW004, M114MW002, M114MW003, M114MW001 and M114MW001-DUP was required due to the high concentrations of dissolved solids in these samples. Reporting limits were adjusted accordingly.

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Acetone	EB1	3.54	JB	5	U	Method blank contamination.
Acetone	M114MW001	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	M114MW001-DUP	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	MA0MW003	7.24		7.24	J	Low recovery in CCV standard.
Acetone	MA0MW004	17.6		17.6	J	Low recovery in CCV standard.
Acetone	TB1	2.51	JB	5	U	Method blank contamination.
Acetone	TB4	3.22	JB	5	U	Method blank contamination.
Acetone	TB7	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	TB8	0.322	U	0.322	UJ	Low recovery in CCV standard.
HMX	EB1	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW001	0.035	U	0.035	UJ	Low recovery in LCS/LCSD.
HMX	M114MW001-DUP	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW002	0.039	U	0.039	UJ	Low recovery in LCS/LCSD.
HMX	M114MW003	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW004	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MA01MW001	0.037	U	0.037	UJ	Low recovery in LCS/LCSD.
HMX	MA01MW002	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MA02MW001D	0.07	U	0.07	UJ	Low recovery in LCS/LCSD.
HMX	MA0MW003	0.037	U	0.037	UJ	Low recovery in LCS/LCSD.
HMX	MA0MW004	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MWQ23	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
Aluminum (Dissolved)	M114MW001	77.6	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	M114MW003	67.3	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	MA01MW001	105	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	MA01MW002	164	B	200	U	Equipment rinsate contamination.
Arsenic (Dissolved)	M114MW001	2.74	B	10	U	Equipment rinsate contamination.
Arsenic (Dissolved)	M114MW004	4.01	B	10	U	Equipment rinsate contamination.
Arsenic (Dissolved)	MA02MW001D	5.99	B	10	U	Equipment rinsate contamination.
Barium (Dissolved)	EB1	3.53	B	10	U	Method blank contamination. CCB contamination.
Cadmium (Dissolved)	EB1	0.25	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW001	0.88	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW001-DUP	0.83	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW002	0.69	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW003	0.81	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW004	0.9	B	5	U	Method blank contamination.
Copper	MWQ23	4.95	B	10	U	Equipment rinsate contamination.
Copper (Dissolved)	MWQ23	5.49	B	10	U	Equipment rinsate contamination.
Manganese	EB1	3.46	B	15	U	Method blank contamination.
Manganese	M114MW001	4.1	B	15	U	Method blank contamination.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Manganese	M114MW001-DUP	4.33	B	15	U	Method blank contamination.
Manganese	M114MW002	9.22	B	15	U	Method blank contamination.
Manganese	M114MW003	7.83	B	15	U	Method blank contamination.
Manganese	M114MW004	5.27	B	15	U	Method blank contamination.
Manganese	MA01MW001	12.6	B	15	U	Method blank contamination.
Manganese	MA0MW003	7.94	B	15	U	Method blank contamination.
Manganese	MA0MW004	6.88	B	15	U	Method blank contamination.
Zinc	M114MW003	17.5	B	20	U	Equipment rinsate contamination.
Zinc	MA01MW001	2.74	B	20	U	Equipment rinsate contamination.
Zinc	MA0MW003	13.4	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	M114MW003	14.2	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	MA0MW003	4.16	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	MA0MW004	9.8	B	20	U	Equipment rinsate contamination.
Nitrite	MA01MW001	0.004	B	0.01	U	Method blank contamination.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.278	U	0.278	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.504	U	0.504	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.606	U	0.606	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.178	U	0.178	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.214	U	0.214	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.232	U	0.232	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.07	U	0.07	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.272	U	0.272	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.132	U	0.132	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.4	U	0.4	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.204	U	0.204	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.154	U	0.154	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.28	U	0.28	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.337	U	0.337	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.099	U	0.099	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.119	U	0.119	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.129	U	0.129	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.039	U	0.039	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.151	U	0.151	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.073	U	0.073	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.222	U	0.222	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.206	U	0.206	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.211	U	0.211	U	ug/L	

DF = Dilution Factor
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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.14	U	0.14	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.255	U	0.255	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.306	U	0.306	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.09	U	0.09	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.108	U	0.108	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.117	U	0.117	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.035	U	0.035	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.137	U	0.137	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.202	U	0.202	U	ug/L	

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J = Estimated
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.206	U	0.206	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.211	U	0.211	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	200	**79.6**	**B**	**79.6**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:59 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**19.8**		**19.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**127000**		**127000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**226**		**226**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:59 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**71800**		**71800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	15	**248**		**248**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	50	**18.1**	**B**	**18.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	500	**10400**		**10400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**94.7**		**94.7**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:01 PM**	**25**	25000	**1930000**		**1930000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:59 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**69.9**		**69.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**129**		**129**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:59 PM**	1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
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J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	5.99	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**12.7**		**12.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**127000**		**127000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**116**		**116**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**73500**		**73500**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	15	**208**		**208**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	50	**17.5**	**B**	**17.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**1.44**	**B**	**1.44**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**107**		**107**		**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:10 PM**	**25**	25000	**1910000**		**1910000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**66.2**		**66.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**128**		**128**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:33 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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J = Estimated
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**23.8**		**23.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	5	**0.35**	**B**	**0.35**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**326000**		**326000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**36.9**		**36.9**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**285000**		**285000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	50	**12.5**	**B**	**12.5**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	500	**20300**		**20300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:08 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**74.9**		**74.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**655**		**655**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:05 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	60	**4.59**	**B**	**4.59**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	4.01	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**17.8**		**17.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.9	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**338000**		**338000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**35.2**		**35.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**295000**		**295000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	15	**3.11**	**B**	**3.11**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	50	**13**	**B**	**13**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	500	**20600**		**20600**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	40	**18.9**	**B**	**18.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:17 PM**	**25**	25000	**2240000**		**2240000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**68.9**		**68.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**653**		**653**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	200	**78.8**	**B**	**78.8**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**23.9**		**23.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**252000**		**252000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**29.8**		**29.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**160**		**160**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**238000**		**238000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	9.22	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**27**	**B**	**27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**20**	**B**	**20**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:15 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:12 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:12 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**81**		**81**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**175**		**175**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:12 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**17.5**		**17.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**257000**		**257000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**25.1**		**25.1**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**26.2**	**B**	**26.2**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**21.8**	**B**	**21.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:24 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**74.3**		**74.3**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**163**		**163**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:01 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	200	**63.6**	**B**	**63.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:26 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**20.9**		**20.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**130**		**130**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	7.83	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	50	**8.07**	**B**	**8.07**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:26 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	500	**19800**		**19800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	40	**30.7**	**B**	**30.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:22 PM**	**25**	25000	**2620000**		**2620000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:26 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	20	**79.7**		**79.7**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	17.5	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:26 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	200	67.3	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**14.6**		**14.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.81	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**22**		**22**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**271000**		**271000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	50	**8.48**	**B**	**8.48**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	500	**19700**		**19700**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	40	**31.5**	**B**	**31.5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:31 PM**	**25**	25000	**2550000**		**2550000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	20	**76.2**		**76.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	14.2	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:15 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	200	**276**		**276**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**27.8**		**27.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**49700**		**49700**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**204**		**204**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**48700**		**48700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	12.6	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	50	**4.94**	**B**	**4.94**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	40	**2.96**	**B**	**2.96**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	500	**7780**		**7780**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 7:35 PM**	**5**	5000	**567000**		**567000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**3.16**	**B**	**3.16**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	20	**61.1**		**61.1**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	2.74	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:04 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	200	105	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**18**		**18**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50800**		**50800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**13.4**		**13.4**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**46.6**	**B**	**46.6**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50100**		**50100**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	15	**2.16**	**B**	**2.16**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	50	**5.66**	**B**	**5.66**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	500	**7880**		**7880**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 4:46 PM**	**5**	5000	**588000**		**588000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	20	**58.3**		**58.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 5:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:47 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:47 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:47 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	5	**0.31**	**B**	**0.31**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**269000**		**269000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**22.5**		**22.5**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**79.9**	**B**	**79.9**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**239000**		**239000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	4.1	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	50	**16.9**	**B**	**16.9**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**19.7**	**B**	**19.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	500	**18500**		**18500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**31.1**	**B**	**31.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:29 PM**	**25**	25000	**1960000**		**1960000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:47 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:47 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**75.3**		**75.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**47.2**		**47.2**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:47 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	200	77.6	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	2.74	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**18.7**		**18.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.88	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**280000**		**280000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**21**		**21**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**250000**		**250000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	50	**17.9**	**B**	**17.9**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**19.1**	**B**	**19.1**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	500	**19300**		**19300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**28.8**	**B**	**28.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:38 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**73.5**		**73.5**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**46.8**		**46.8**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:22 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	200	**64.5**	**B**	**64.5**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:54 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**25.3**		**25.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:54 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	5	**0.3**	**B**	**0.3**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**276000**		**276000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**22.8**		**22.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**91.3**	**B**	**91.3**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	4.33	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	50	**17.6**	**B**	**17.6**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**20.7**	**B**	**20.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**27.2**	**B**	**27.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:36 PM**	**25**	25000	**2060000**		**2060000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:54 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:54 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**76.3**		**76.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**50.5**		**50.5**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:54 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**18.8**		**18.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**278000**		**278000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**20.5**		**20.5**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**248000**		**248000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	50	**18.2**	**B**	**18.2**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**26.8**	**B**	**26.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:45 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**72.4**		**72.4**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**46.9**		**46.9**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:28 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 10:00 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:00 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**30.7**		**30.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**38200**		**38200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**5.09**	**B**	**5.09**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**87.7**		**87.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**176**		**176**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	15	**2.3**	**B**	**2.3**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**36600**		**36600**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:00 PM**	1	15	6.88	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	50	**7.31**	**B**	**7.31**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**2.29**	**B**	**2.29**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	500	**6610**		**6610**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**4.44**	**B**	**4.44**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:46 PM**	**1**	1000	**308000**		**308000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:00 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:00 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**58.8**		**58.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**22.3**		**22.3**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:00 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**36800**		**36800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**1.3**	**B**	**1.3**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23**		**23**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**35000**		**35000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	15	**2.26**	**B**	**2.26**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	50	**6.27**	**B**	**6.27**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	500	**6400**		**6400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:56 PM**	**1**	1000	**297000**		**297000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	20	**56.4**		**56.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	9.8	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:35 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	200	**111**	**B**	**111**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:08 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**28.8**		**28.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63100**		**63100**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**4.46**	**B**	**4.46**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**44**		**44**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**116**		**116**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63400**		**63400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	7.94	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	50	**4.39**	**B**	**4.39**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	500	**8970**		**8970**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:53 PM**	**1**	1000	**469000**		**469000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:08 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	20	**68.2**		**68.2**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	13.4	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:08 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**20.2**		**20.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**59600**		**59600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**2.19**	**B**	**2.19**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**17.7**		**17.7**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**60300**		**60300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	50	**4.09**	**B**	**4.09**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	500	**8430**		**8430**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:03 PM**	**1**	1000	**458000**		**458000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	20	**65.5**		**65.5**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	4.16	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:42 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 11:41 PM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	60	**102**		**102**		**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**17.6**		**17.6**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**35100**		**35100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**11**		**11**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 11:41 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**34200**		**34200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	15	**2.76**	**B**	**2.76**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	50	**7.44**	**B**	**7.44**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 11:41 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	500	**6860**		**6860**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	40	**5.87**	**B**	**5.87**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/20/2011 11:29 PM**	**1**	1000	**491000**		**491000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 11:41 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**50.8**		**50.8**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**20.1**		**20.1**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 11:41 PM**	1	0.2	0.081	U	0.081	U	ug/L

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B = Estimated (between MDL and RL)
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	200	164	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**16.5**		**16.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**37400**		**37400**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**11.6**		**11.6**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**36700**		**36700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	50	**8.79**	**B**	**8.79**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	500	**7280**		**7280**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:01 PM**	**1**	1000	**527000**		**527000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	20	**53.4**		**53.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 10:29 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/25/2011 12:17 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/25/2011 12:17 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**3.23**	**B**	**3.23**	**B**	**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**13600**		**13600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	4.95	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**43.8**	**B**	**43.8**	**B**	**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**1.92**	**B**	**1.92**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**9350**		**9350**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**66.8**		**66.8**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	50	**31.9**	**B**	**31.9**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	500	**2520**		**2520**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/21/2011 12:07 AM**	**1**	1000	**451000**		**451000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/25/2011 12:17 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/25/2011 12:17 AM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**16.1**	**B**	**16.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**24.7**		**24.7**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/25/2011 12:17 AM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**14400**		**14400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 11:18 PM**	1	1	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	5.49	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**9750**		**9750**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	15	**70.1**		**70.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	50	**34**	**B**	**34**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	500	**2680**		**2680**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:38 PM**	**1**	1000	**489000**		**489000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**16.5**	**B**	**16.5**	**B**	**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**25**		**25**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 11:18 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA02MW001D**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060801**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	101	2190		2190		mg/L
Sulfate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	5	0.05	1.56		1.56		mg/L-
Nitrite	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	1	130		130		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	6290		6290		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.00149	0.0224		0.0224		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060802**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	101	4180		4180		mg/L
Sulfate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	200	2110		2110		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.9		0.9		mg/L-
Nitrite	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	1	56.6		56.6		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	7000		7000		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.000594	0.00279		0.00279		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060805**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	101	3660		3660		mg/L
Sulfate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.375		0.375		mg/L-
Nitrite	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	1	69.2		69.2		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	7800		7800		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.000594	0.0028		0.0028		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060807**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	101	4550		4550		mg/L
Sulfate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	200	2460		2460		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.719		0.719		mg/L-
Nitrite	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	1	44.5		44.5		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	9540		9540		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.000594	0.0041		0.0041		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA01MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060810**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	50	651		651		mg/L	
Sulfate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	101	704		704		mg/L	
Method: EPA 353.2										
Nitrate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.233		0.233		mg/L-	
Nitrite	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.004	B	0.01	U	mg/L-	*
Method: SM 2320 B										
Total Alkalinity	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	1	169		169		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	1980		1980		mg/L	
Method: SW-846 6860										
Perchlorate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.0003	0.000369		0.000369		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060815**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	101	3280		3280		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	200	2140		2140		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	5	0.05	0.901		0.901		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	1	79.1		79.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	8270		8270		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.000594	0.00327		0.00327		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

DF = Dilution Factor
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J = Estimated
R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW001-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060816**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	101	3250		3250		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	200	2150		2150		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	2	0.02	0.915		0.915		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	1	82.1		82.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	8310		8310		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.000594	0.00324		0.00324		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA0MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060818**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	20	269		269		mg/L
Sulfate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	40	352		352		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.615		0.615		mg/L-
Nitrite	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	1	192		192		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	1110		1110		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.0003	0.0098		0.0098		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	7	B	7	B	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.005	0.0013	B	0.0013	B	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA0MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060819**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	50	537		537		mg/L
Sulfate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	101	616		616		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.163		0.163		mg/L-
Nitrite	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	1	161		161		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	1760		1760		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.0003	0.00103		0.00103		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	18		18		ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA01MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105170901**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	20	473		473		mg/L
Sulfate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	40	544		544		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.325		0.325		mg/L-
Nitrite	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	1	171		171		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	1780		1780		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.0003	0.00205		0.00205		mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MWQ23**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105170902**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	20	235		235		mg/L
Sulfate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	40	423		423		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Nitrite	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	1	327		327		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	1420		1420		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.0003	0.0003	U	0.0003	U	mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**
Analysis Date: **05/09/2011 9:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**
Analysis Date: **05/09/2011 9:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16		16		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**
Analysis Date: **05/09/2011 10:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**
Analysis Date: **05/09/2011 10:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	12.4		12.4		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**
Analysis Date: **05/09/2011 11:11 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**
Analysis Date: **05/09/2011 11:11 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16.3		16.3		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**
Analysis Date: **05/10/2011 12:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**
Analysis Date: **05/10/2011 12:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	4.55		4.55		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**
Analysis Date: **05/10/2011 5:58 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**
Analysis Date: **05/10/2011 5:58 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	6.28		6.28		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 10:52 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 10:52 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	3.06		3.06		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 11:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 11:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	2.99		2.99		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**
Analysis Date: **05/11/2011 12:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	17.6		17.6	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**
Analysis Date: **05/11/2011 12:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**
Analysis Date: **05/11/2011 12:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	7.24		7.24	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**
Analysis Date: **05/11/2011 12:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**
Analysis Date: **05/18/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**
Analysis Date: **05/18/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	1.89		1.89		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**
Analysis Date: **05/18/2011 1:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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N = Presumptive evidence
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**
Analysis Date: **05/18/2011 1:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Tinker	4747	21105060 ~~21105060~~	5-13-11

Report to:
Client: Tinker ADC
Address: 90 NW Beal Pkwy Suite 2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-313-0072
Fax: 850-313-0075

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Petroleum Hydrocarbons	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Remarks:	Lab ID
GW	5/5/11	936		✓	MWQ2		7	X		X	X	X	X	X		X			*	~~13~~ 2
GW	5/5/11	1523		✓	MAO2 MWCOUD		12	X	X		X	X		X	X	X			1	~~14~~ 2
GW	5/5/11	1511		✓	M114 MWCOM		12	X	X	X	X	X	X	X	X	X			2	~~15~~ 2
	5/5/11	936			TB2		3												3	~~16~~ 2
	5/5/11	936			TB2		3												4	~~17~~ 2

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/6/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* Sample was a reported water

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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GCAL-06 11/98

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2405060E	

Report to:
Client: Trinity ADC
Address: 90 NM Bend Pkwy Suite A2
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850243-2072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Toxicity Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	CL/SO4/NO3/NO2	Alkt/TS	VOC (HCl) 8260			Remarks:	Lab ID
GW	5/6/11	1135		X	M114 MW007		17	X	X	X	X	X	X	X	X	X				5
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X				6
GW	5/6/11	1430		X	M114MW003		17	X	X	X	X	X	X	X	X	X				7
	5/6/11				TB4		3									X				8
	5/6/11				TB5		3									X				9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/6/11	1523
Relinquished by: (Signature) Fedex	Received by: (Signature) [signature]	Date: 5/7/11 5/6/11	Time: 0857
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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Chg. 00000077

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4147	21105060E	5-17-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Chloride (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CrVI (NaOH/NaO3/MnCl2)			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X		X	X	X		*	
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X		*	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X			10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X			11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X			12, 13
	5/9/11				TB6		3					X							14
	~~5/9/11~~				~~TB7~~		~~3~~					X							

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[signature]	5-10-11	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample will be received at lab 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050608	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 2450072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CTISO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				
	5/9/11				TB6		3					X								
	5/9/11				TB7		3					X								
	5/10/11				TB8 *															17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Foley	M	5-10-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* samples received 5-10-11 @ 725

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	5-18-4

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCL)	ALKTS	Cl/SO4 /NO3	CrVI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				19
	5/10/11				TB7		3						X							20
					TB8		3						X						X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex		5/11/11	845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

21105060 8

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~21105042b~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy AZ
Fort Walton Beach FL 32548
Contact: J. Kilmer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Illsamer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide	CN (NaOH)	Chloride (NaOH)	Sulfate	Chloride/NaOH	SVOC/TS	VOC (HCL)			Remarks:	Lab ID
GW	5/16/11	955		X	MAC1 MWX02		12	X	X	X	X	X	X	X	X	X			21	21105170901
GW	5/16/11	1100		X	MWX23		12	X	X	X	X	X	X	X	X	X			22	21105170902
					TB9		3									X			23	21105170903

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/16/11	1539
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fed Ex	Fed Ex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[signature]	5/17/11	0900

Note: MWQ23 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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GCAL-06 11/98

Data Validation Report

Melrose AFB Semi-Annual

Trinity Analysis & Development Corp

SDG: 2110928048 Date: October 30, 2011

Environmental Data Professional, LLC
212 Doctor Michael DeBakey Drive • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: October 30, 2011

Sample Delivery Group: 2110928048

Project Name: Melrose AFB Semi-Annual

Data validation personnel: Dana Hebert and Tony Duhon

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Anthony Duhon Date: October 30, 2011

INTRODUCTION:

SDG: 2110928048
Project Name: Melrose AFB Semi-Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received two data packages containing the results for ten field samples, one field duplicate, one equipment rinsate and five trip blanks. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review*, analytical methods and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MA01MW001	21109280401	9/27/2011 9:33:00 AM	[1-14]
MA01MW003	21109280402	9/27/2011 12:21:00 PM	[1-14]
TB-1	21109280405	9/27/2011 4:33:00 PM	[1]
MA02MW001D	21109280407	9/28/2011 10:28:00 AM	[1-14]
FD-1	21109280408	9/28/2011 10:28:00 AM	[1-14]
TB-2	21109280409	9/28/2011 10:28:00 AM	[1]
MWQ-23	21109280410	9/29/2011 8:40:00 AM	[1-14]
MA01-MW004	21109280411	9/29/2011 11:10:00 AM	[1-14]
MA01-MW002	21109280412	9/29/2011 1:06:00 PM	[1-14]
TB-4	21109280413	9/29/2011 8:40:00 AM	[1]
M114MW004	21110010501	9/30/2011 10:00:00 AM	[1-14]
M114MW001	21110010502	9/30/2011 12:36:00 PM	[1-14]
TB-5	21110010503	9/30/2011 10:00:00 AM	[1]
EB-1	21110010504	10/3/2011 8:00:00 AM	[1-14]
M114MW002	21110010505	10/3/2011 9:32:00 AM	[1-14]
M114MW003	21110010506	10/3/2011 11:46:00 AM	[1-14]
TB-6	21110010507	10/3/2011 8:00:00 AM	[1]

Analyses Performed Codes:

[1] Volatile Organics – SW-846 8260B
[2] Explosives – SW-846 8330
[3] Sulfate and Chloride – EPA 300.0
[4] Nitrate – EPA 353.2
[5] Nitrite – EPA 353.2
[6] Total Cyanide – SW-846 9012A
[7] Total Alkalinity – SM 2320B
[8] Total Dissolved Solids – SM 2540C
[9] Hexavalent Chromium – SW-846 7196A
[10] TAL Metals (total) – SW-846 6010C
[11] Mercury (total) – SW-846 7470A
[12] TAL Metals (Dissolved) – SW-846 6010C
[13] Mercury (Dissolved) – SW-846 7470A
[14] Perchlorate (Filtered and Unfiltered) – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

The laboratory data packages were complete. No resubmissions were required.

The relative percent difference (RPD) values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method SW-846 8260B - Volatile Organic Analyses:

Recovery of n-Butylbenzene in the continuing calibration verification sample leading the analysis of sample MWQ-23 exceeded upper acceptance criteria. This analyte was not detected in this sample. No qualification of the laboratory result was necessary. The laboratory qualified this laboratory result with a “Q”. This qualifier was removed during the validation review.

Recovery of Chloroethane in the continuing calibration verification sample leading the analyses of samples MA02MW001D, FD-1 and TB-2 exceeded upper acceptance criteria. This analyte was not detected in these samples. Qualification of these laboratory results was not necessary. The laboratory qualified these laboratory results with a “Q”. These qualifiers were removed during the validation review.

An estimate concentration of Acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.

Estimate concentrations of Acetone and Methylene Chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding reporting limit (RL).

Estimate concentrations of Acetone and Methylene Chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of Acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.

III. Method SW-846 8330 - Explosives

Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with “UJ”. No further qualification of these results was necessary.

Recovery of 1,3-Dinitrobenzene in the MSD fortification of parent sample MA01MW003 exceeded lower acceptance criteria. Recovery of this analyte in the matrix spike sample and in laboratory control samples did not exceed acceptance criteria. No result qualifications were necessary.

IV. Method EPA 300.0 – Sulfate and Chloride

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

V. Method EPA 353.2 – Nitrate and Nitrite

Recovery of Nitrate in the MS and MSD fortifications of parent sample M114MW002 exceeded lower acceptance criteria. The laboratory results of this analyte in samples associated with this MS/MSD pair were modified to estimate (J, UJ).

VI. Method SW-846 9012A – Total Cyanide

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VII. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VIII. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IX. Method SW-846 7196A – Hexavalent Chromium

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).

X. Method SW-846 6010C – TAL metals (total)

Several analyte concentrations of total metals were less than the concentration of the corresponding dissolved analyte concentration. The laboratory attributed this anomaly to lack of homogeneity between field sample aliquots. No gross differences were observed.

Recoveries of Calcium, Magnesium and Sodium in all matrix spike (MS) and matrix spike duplicate (MSD) analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

An estimate concentration of Sodium was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.

Estimate concentrations of Sodium were observed in continuing calibration blank (CCB) samples bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and MA01-MW002. No estimate concentrations of this analyte were reported in these samples. No result qualifications were necessary.

An estimate concentration of Barium was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.

An estimate concentration of Silver was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.

Recoveries of Arsenic, Potassium and Selenium in the MSD fortification of parent sample M114MW004 exceeded upper acceptance criteria. Recovery of these analytes in the matrix spike sample, post-digestion spike analysis and in laboratory control sample did not exceed acceptance criteria. No result qualifications were applied based on these exceedences.

Estimate concentrations of Manganese, Nickel and Zinc were reported in equipment rinsate blank sample EB-1. The laboratory results for Manganese in samples M114MW002 and M114MW003 and Nickel in sample M114MW002 were modified to non-detect (U) at the RL.

XI. Method SW-846 6010C – TAL metals (dissolved)

Recoveries of Calcium (dissolved), Magnesium (dissolved) and Sodium (dissolved) in all MS and MSD analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

Recoveries of Potassium (dissolved) in the MS and Arsenic (dissolved), Potassium (dissolved) and Selenium (dissolved) in the MSD fortifications of parent sample M114MW004 exceeded upper acceptance criteria. Recovery of these analytes in the matrix spike sample, post-digestion spike analysis and in laboratory control sample did not exceed acceptance criteria. No result qualifications were applied based on these exceedences.

XII. Method SW-846 7470A – Mercury (total)

Recoveries of Mercury in lab-generated MS and MSD fortifications of parent sample M114MW002 exceeded lower acceptance criteria. Laboratory results for this analyte in samples associated to this MS/MSD pair were modified to estimate (J, UJ).

XIII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIV. Method SW-846 6860 – Perchlorate (Filtered and Unfiltered)

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The laboratory applied a qualifier of “N” to the results to indicate that the laboratory was not NELAC certified for this analyte at the time of analysis. This qualifier was removed for validation.

Recovery of Perchlorate (filtered) in the MS and MSD fortifications of parent sample MA01MW003 exceeded upper acceptance criteria. Laboratory results with reportable concentrations of this analyte for samples from this delivery group were modified to estimate (J) at the concentration reported.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Acetone	M114MW001	1.41	J	5	U	Trip blank contamination.
Acetone	M114MW002	0.909	J	5	U	Trip blank contamination. Equipment rinsate contamination.
Acetone	M114MW003	1.75	J	5	U	Trip blank contamination. Equipment rinsate contamination.
Chloroethane	FD-1	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Chloroethane	MA02MW001D	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Chloroethane	TB-2	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Methylene chloride	M114MW001	0.891	J	5	U	Trip blank contamination.
Methylene chloride	M114MW003	1.37	J	5	U	Trip blank contamination. Equipment rinsate contamination.
n-Butylbenzene	MWQ-23	0.068	UQ	0.068	U	Removal of laboratory qualifier.
Barium	EB-1	2.23	B	10	U	Preparation blank contamination.
Manganese	M114MW002	3.12	B	15	U	Equipment rinsate contamination.
Manganese	M114MW003	6.87	B	15	U	Equipment rinsate contamination.
Mercury	EB-1	0.10037	B	0.10037	J	Low recovery in MS/MSD.
Mercury	M114MW001	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Mercury	M114MW002	0.10199	B	0.10199	J	Low recovery in MS/MSD.
Mercury	M114MW003	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Mercury	M114MW004	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Nickel	M114MW002	39.4	B	40	U	Equipment rinsate contamination.
Silver	EB-1	0.67	B	10	U	Continuing calibration blank contamination.
Chromium VI	FD-1	6	B	6	J	Holding time exceedence.
Chromium VI	M114MW002	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MA01MW001	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MA02MW001D	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MWQ-23	3.3	U	3.3	UJ	Holding time exceedence.
Nitrate	EB-1	0.003	U	0.003	UJ	Low recovery in MS/MSD.
Nitrate	M114MW001	0.899		0.899	J	Low recovery in MS/MSD.
Nitrate	M114MW002	0.245		0.245	J	Low recovery in MS/MSD.
Nitrate	M114MW003	0.43		0.43	J	Low recovery in MS/MSD.
Nitrate	M114MW004	0.511		0.511	J	Low recovery in MS/MSD.
Perchlorate	EB-1	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	EB-1	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	FD-1	0.0231	N	0.0231	J	Low recovery in MS/MSD.
Perchlorate	M114MW001	0.0027	N	0.0027	J	Low recovery in MS/MSD.
Perchlorate	M114MW002	0.00277	N	0.00277	J	Low recovery in MS/MSD.
Perchlorate	M114MW003	0.00329	N	0.00329	J	Low recovery in MS/MSD.
Perchlorate	M114MW004	0.00254	N	0.00254	J	Low recovery in MS/MSD.
Perchlorate	MA01MW001	0.000266	N	0.000266	J	Low recovery in MS/MSD.
Perchlorate	MA01MW001	0.000357	JN	0.000357	J	Removal of laboratory qualifier.
Perchlorate	MA01-MW002	0.00149	N	0.00149	J	Low recovery in MS/MSD.
Perchlorate	MA01MW003	0.000413	JN	0.000413	J	Removal of laboratory qualifier.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Perchlorate	MA01MW003	0.000298	N	0.000298	J	Low recovery in MS/MSD.
Perchlorate	MA01-MW004	0.00353	N	0.00353	J	Low recovery in MS/MSD.
Perchlorate	MA02MW001D	0.0196	N	0.0196	J	Low recovery in MS/MSD.
Perchlorate	MWQ-23	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	MWQ-23	0.0001	NU	0.0001	U	Removal of laboratory qualifier.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**
Analysis Date: **10/02/2011 9:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**
Analysis Date: **10/02/2011 9:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**
Analysis Date: **10/02/2011 8:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**
Analysis Date: **10/02/2011 8:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 4:33 PM**
Analysis Date: **10/02/2011 10:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 4:33 PM**
Analysis Date: **10/02/2011 10:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:33 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:33 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:54 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:54 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 10:15 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 10:15 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/03/2011 1:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/03/2011 1:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	UQ	0.068	U	ug/L	*
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**
Analysis Date: **10/02/2011 10:51 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**
Analysis Date: **10/02/2011 10:51 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
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R = Rejected
N = Presumptive evidence
* = Modified by Validation
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**
Analysis Date: **10/02/2011 11:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**
Analysis Date: **10/02/2011 11:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/02/2011 11:32 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/02/2011 11:32 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 12:35 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	5.42		5.42		ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 12:35 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**
Analysis Date: **10/07/2011 12:56 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.41	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**
Analysis Date: **10/07/2011 12:56 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.891	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 1:17 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.5	J	2.5	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 1:17 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	1.04	J	1.04	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1**
Location ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:37 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.38	J	2.38	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1**
Location ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:37 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	3.55	J	3.55	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**
Analysis Date: **10/07/2011 2:19 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.909	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**
Analysis Date: **10/07/2011 2:19 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Analysis Date: **10/07/2011 2:41 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.75	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Analysis Date: **10/07/2011 2:41 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	1.37	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:58 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.31	J	2.31	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:58 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.143	U	0.143	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.26	U	0.26	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.312	U	0.312	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.092	U	0.092	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.11	U	0.11	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.12	U	0.12	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.036	U	0.036	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.14	U	0.14	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.068	U	0.068	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.206	U	0.206	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.145	UJ	0.145	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.263	UJ	0.263	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.316	UJ	0.316	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.093	UJ	0.093	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.111	UJ	0.111	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.121	UJ	0.121	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.036	UJ	0.036	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.142	UJ	0.142	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.069	UJ	0.069	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.208	UJ	0.208	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	200	**84.3**	**B**	**84.3**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 12:52 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**14.9**		**14.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:25 PM**	**1**	100	**51000**		**51000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**1.06**	**B**	**1.06**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:52 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	100	**48100**		**48100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	15	**5.72**	**B**	**5.72**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	50	**4.42**	**B**	**4.42**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	500	**7120**		**7120**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	1000	**569000**		**569000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:52 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**23**		**23**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**229**		**229**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**14.7**		**14.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:05 PM**	**1**	100	**51300**		**51300**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**11.7**		**11.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	100	**51400**		**51400**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	50	**4.61**	**B**	**4.61**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	500	**7670**		**7670**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:10 PM**	**2**	2000	**556000**		**556000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**26.1**		**26.1**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**248**		**248**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:32 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:33 PM**	1	0.2	0.075	U	0.075	U	ug/L

DF = Dilution Factor
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J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 12:01 AM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	60	**5.29**	**B**	**5.29**	**B**	**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**20.7**		**20.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 4:48 PM**	**1**	100	**64100**		**64100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**1.96**	**B**	**1.96**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**13.7**		**13.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:01 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:01 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**61200**		**61200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	15	**10.2**	**B**	**10.2**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C	**10/04/2011 12:01 AM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	500	**7750**		**7750**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	1000	**459000**		**459000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:01 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**1.24**	**B**	**1.24**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**29.6**		**29.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**339**		**339**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**18.1**		**18.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 1:58 PM**	**1**	100	**58600**		**58600**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**12.7**		**12.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	100	**58700**		**58700**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	15	**8.24**	**B**	**8.24**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	500	**7620**		**7620**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	1000	**430000**		**430000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**26.7**		**26.7**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**316**		**316**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:17 PM**	**1**	0.2	**0.09518**	**B**	**0.09518**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:27 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:00 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:00 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**9.84**	**B**	**9.84**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:48 PM**	**1**	100	**114000**		**114000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**25.3**		**25.3**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:00 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	100	**67600**		**67600**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	15	**209**		**209**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	50	**14**	**B**	**14**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**1.43**	**B**	**1.43**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	500	**8540**		**8540**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**117**		**117**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:35 PM**	**25**	25000	**1580000**		**1580000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:00 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**24.5**		**24.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**288**		**288**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**9.44**	**B**	**9.44**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:13 PM**	**1**	100	**119000**		**119000**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**23.8**		**23.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	100	**73300**		**73300**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	50	**15.2**	**B**	**15.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**2.14**	**B**	**2.14**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	500	**9280**		**9280**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**132**		**132**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:18 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**301**		**301**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:35 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:37 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	200	**78.9**	**B**	**78.9**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:07 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**10.1**		**10.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:55 PM**	**1**	100	**116000**		**116000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**25**		**25**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:07 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	100	**69100**		**69100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	15	**210**		**210**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	50	**14.2**	**B**	**14.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**1.82**	**B**	**1.82**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	500	**8720**		**8720**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**122**		**122**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:43 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:07 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**290**		**290**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**3.85**	**B**	**3.85**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**9.39**	**B**	**9.39**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:30 PM**	**1**	100	**122000**		**122000**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**23.6**		**23.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	100	**73800**		**73800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	50	**15.3**	**B**	**15.3**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	500	**9230**		**9230**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**133**		**133**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:27 PM**	**25**	25000	**1600000**		**1600000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**303**		**303**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:38 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:40 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:15 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:15 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**11.3**		**11.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:02 PM**	**1**	100	**14700**		**14700**		**ug/L**
7440-47-3	Chromium	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**5.68**	**B**	**5.68**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:15 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	100	**9550**		**9550**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	15	**78**		**78**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	50	**30.4**	**B**	**30.4**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	500	**2570**		**2570**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	1000	**472000**		**472000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:15 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**8.39**	**B**	**8.39**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**10.8**		**10.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:37 PM**	**1**	100	**14700**		**14700**		**ug/L**

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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**5.14**	**B**	**5.14**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**9680**		**9680**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	15	**75.9**		**75.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	50	**31.3**	**B**	**31.3**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	500	**2470**		**2470**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	1000	**481000**		**481000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**2.51**	**B**	**2.51**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**8.64**	**B**	**8.64**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:41 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:46 PM**	1	0.2	0.075	U	0.075	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:23 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:23 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**23**		**23**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:10 PM**	**1**	100	**39300**		**39300**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**1.21**	**B**	**1.21**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**8.23**	**B**	**8.23**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:23 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	100	**35500**		**35500**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	15	**6.56**	**B**	**6.56**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	50	**4.78**	**B**	**4.78**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:23 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	500	**6040**		**6040**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	40	**6.15**	**B**	**6.15**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	1000	**321000**		**321000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:23 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**26.4**		**26.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**276**		**276**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**23.4**		**23.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:44 PM**	**1**	100	**39900**		**39900**		**ug/L**

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J = Estimated
R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**9.63**	**B**	**9.63**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	15	**5.81**	**B**	**5.81**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	50	**5.07**	**B**	**5.07**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	500	**6150**		**6150**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	40	**5.03**	**B**	**5.03**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	1000	**323000**		**323000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**1.52**	**B**	**1.52**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**32.5**		**32.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**305**		**305**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:48 PM**	**1**	0.2	**0.08023**	**B**	**0.08023**	**B**	**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:49 PM**	**1**	0.2	**0.08433**	**B**	**0.08433**	**B**	**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:31 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:31 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**16.3**		**16.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:18 PM**	**1**	100	**39000**		**39000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**2.47**	**B**	**2.47**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**10.2**		**10.2**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:31 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	100	**35800**		**35800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	15	**5.45**	**B**	**5.45**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	50	**5.93**	**B**	**5.93**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	500	**6640**		**6640**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	1000	**531000**		**531000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:31 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**210**		**210**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**15.1**		**15.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:55 PM**	**1**	100	**39100**		**39100**		**ug/L**

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R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	50	**6.66**	**B**	**6.66**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	500	**6710**		**6710**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	40	**4.49**	**B**	**4.49**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	1000	**533000**		**533000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**1.37**	**B**	**1.37**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**27.4**		**27.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**219**		**219**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:51 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:52 PM**	**1**	0.2	**0.09305**	**B**	**0.09305**	**B**	**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	200	**110**	**B**	**110**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 5:30 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**15.2**		**15.2**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 5:30 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	5	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	100	**303000**		**303000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**4.29**	**B**	**4.29**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**13.8**		**13.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/06/2011 5:30 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	100	**283000**		**283000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	15	**3.49**	**B**	**3.49**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	50	**13.1**	**B**	**13.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**1.22**	**B**	**1.22**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	500	**17100**		**17100**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**21.6**	**B**	**21.6**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 1:27 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 5:30 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**4**	**B**	**4**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**347**		**347**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**4.75**	**B**	**4.75**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**15**		**15**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	5	**1.4**	**B**	**1.4**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 3:30 PM**	**1**	100	**339000**		**339000**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**17.6**		**17.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	100	**283000**		**283000**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	50	**13.3**	**B**	**13.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	500	**18300**		**18300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	40	**22.4**	**B**	**22.4**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 11:04 AM**	**25**	25000	**2480000**		**2480000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**6.46**	**B**	**6.46**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**366**		**366**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:16 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:15 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	200	**100**	**B**	**100**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**17.4**		**17.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	5	**1.16**	**B**	**1.16**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:25 PM**	**1**	100	**259000**		**259000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**8.46**	**B**	**8.46**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**15.8**		**15.8**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**47.1**	**B**	**47.1**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**236000**		**236000**		**ug/L**
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:25 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	50	**17.8**	**B**	**17.8**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**8.97**	**B**	**8.97**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	500	**16400**		**16400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**30.3**	**B**	**30.3**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:19 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**14.8**	**B**	**14.8**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**394**		**394**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**3.83**	**B**	**3.83**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**16.9**		**16.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	5	**1.19**	**B**	**1.19**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:01 PM**	**1**	100	**285000**		**285000**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**4.17**	**B**	**4.17**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**15.6**		**15.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	100	**257000**		**257000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	50	**18.8**	**B**	**18.8**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**9.23**	**B**	**9.23**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	500	**17700**		**17700**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**30.1**	**B**	**30.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:20 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**10.5**	**B**	**10.5**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**413**		**413**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:20 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:18 PM**	**1**	0.2	**0.08165**	**B**	**0.08165**	**B**	**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**10/06/2011 6:22 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:22 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	2.23	B	10	U	ug/L	*
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C	**10/10/2011 2:26 PM**	1	100	50	U	50	U	ug/L	
7440-47-3	Chromium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:22 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 2:26 PM**	**1**	15	**2.1**	**B**	**2.1**	**B**	**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**10/06/2011 6:22 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	40	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-09-7	Potassium	SW-846 6010C	**10/06/2011 6:22 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C	**10/06/2011 6:22 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	0.67	B	10	U	ug/L	*
7440-23-5	Sodium	SW-846 6010C	**10/10/2011 2:26 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	20	**13.6**	**B**	**13.6**	**B**	**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.59	U	1.59	U	ug/L	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	100	50	U	50	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	Chromium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	Potassium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	Sodium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	Zinc	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	5.89	U	5.89	U	ug/L	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:23 PM**	**1**	0.2	**0.10037**	**B**	**0.10037**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:21 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	200	**85.3**	**B**	**85.3**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:29 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**17.3**		**17.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:29 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	5	**1.37**	**B**	**1.37**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:31 PM**	**1**	100	**251000**		**251000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**4.92**	**B**	**4.92**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**13.8**		**13.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**60.5**	**B**	**60.5**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:29 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**255000**		**255000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:31 PM**	1	15	3.12	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	50	**23.7**	**B**	**23.7**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**40.6**		**40.6**		**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	500	**16500**		**16500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**23.2**	**B**	**23.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:34 PM**	**25**	25000	**2100000**		**2100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:29 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**2.01**	**B**	**2.01**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**11**	**B**	**11**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**239**		**239**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.5**		**15.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	5	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:08 PM**	**1**	100	**267000**		**267000**		**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**3.73**	**B**	**3.73**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.8**		**15.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	100	**258000**		**258000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:08 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	50	**22.1**	**B**	**22.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	40	39.4	B	40	U	ug/L	*
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	40	**20.1**	**B**	**20.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:35 PM**	**25**	25000	**2220000**		**2220000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**234**		**234**		**ug/L**	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:05 PM**	**1**	0.2	**0.10199**	**B**	**0.10199**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:04 PM**	1	0.2	0.075	U	0.075	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	200	**200**		**200**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:36 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:36 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	5	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:37 PM**	**1**	100	**317000**		**317000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**162**		**162**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:36 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:37 PM**	1	15	6.87	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	50	**9.56**	**B**	**9.56**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**10/06/2011 6:36 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	500	**17000**		**17000**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	40	**29.6**	**B**	**29.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:41 PM**	**25**	25000	**2540000**		**2540000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:36 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**2.45**	**B**	**2.45**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**12.1**	**B**	**12.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**276**		**276**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	5	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:16 PM**	**1**	100	**334000**		**334000**		**ug/L**	

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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**1.33**	**B**	**1.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**15.1**		**15.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	100	**272000**		**272000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:16 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	50	**8.6**	**B**	**8.6**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	500	**17400**		**17400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	40	**29.7**	**B**	**29.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:43 PM**	**25**	25000	**2580000**		**2580000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**13.4**	**B**	**13.4**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**271**		**271**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:26 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:24 PM**	**1**	0.2	**0.09168**	**B**	**0.09168**	**B**	**ug/L**	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	50	525		525		mg/L	
Sulfate	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	100	564		564		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 9:33 AM**	**09/28/2011 3:57 PM**	1	0.01	0.116		0.116		mg/L-N	
Nitrite	**09/27/2011 9:33 AM**	**09/28/2011 4:53 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000357	JN	0.000357	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000266	N	0.000266	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 9:33 AM**	**09/30/2011 7:51 AM**	1	1	172		172		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 9:33 AM**	**09/30/2011 1:00 PM**	1	10	1990		1990		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 9:33 AM**	**09/28/2011 10:13 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 9:33 AM**	**10/06/2011 10:26 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280402**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	50	477		477		mg/L	
Sulfate	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	100	524		524		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 12:21 PM**	**09/28/2011 3:58 PM**	1	0.01	0.085		0.085		mg/L-N	
Nitrite	**09/27/2011 12:21 PM**	**09/28/2011 4:54 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000413	JN	0.000413	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000298	N	0.000298	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 12:21 PM**	**09/30/2011 7:51 AM**	1	1	152		152		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 12:21 PM**	**09/30/2011 1:00 PM**	1	10	1790		1790		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 12:21 PM**	**09/28/2011 10:14 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 12:21 PM**	**10/06/2011 10:28 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA02MW001D**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280407**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	100	1640		1640		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	200	1860		1860		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:46 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:34 PM**	1	0.01	0.035		0.035		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0238	N	0.0238		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0196	N	0.0196	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	142		142		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5620		5620		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:54 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:31 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**FD-1**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280408**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	100	1620		1620		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	200	1940		1940		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:48 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:35 PM**	1	0.01	0.04		0.04		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0212	N	0.0212		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0231	N	0.0231	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	144		144		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5750		5750		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:55 AM**	1	10	6	B	6	J	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:32 AM**	1	0.005	0.0006	B	0.0006	B	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MWQ-23**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280410**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	20	212		212		mg/L	
Sulfate	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	40	396		396		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 8:40 AM**	**09/30/2011 6:32 PM**	1	0.01	0.013		0.013		mg/L-N	
Nitrite	**09/29/2011 8:40 AM**	**09/30/2011 5:40 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 8:40 AM**	**09/30/2011 11:01 AM**	1	1	333		333		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 8:40 AM**	**09/30/2011 1:00 PM**	1	10	1310		1310		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 8:40 AM**	**09/30/2011 10:48 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 8:40 AM**	**10/06/2011 10:38 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280411**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	20	251		251		mg/L	
Sulfate	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	40	329		329		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 11:10 AM**	**09/30/2011 6:35 PM**	1	0.01	0.339		0.339		mg/L-N	
Nitrite	**09/29/2011 11:10 AM**	**09/30/2011 5:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00407	N	0.00407		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00353	N	0.00353	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 11:10 AM**	**09/30/2011 11:01 AM**	1	1	200		200		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 11:10 AM**	**09/30/2011 1:00 PM**	1	10	1130		1130		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 11:10 AM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 11:10 AM**	**10/06/2011 10:39 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280412**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	20	431		431		mg/L	
Sulfate	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	40	514		514		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 1:06 PM**	**09/30/2011 6:37 PM**	1	0.01	0.207		0.207		mg/L-N	
Nitrite	**09/29/2011 1:06 PM**	**09/30/2011 5:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00188	N	0.00188		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00149	N	0.00149	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 1:06 PM**	**09/30/2011 11:01 AM**	1	1	180		180		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 1:06 PM**	**09/30/2011 1:00 PM**	1	10	1720		1720		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 1:06 PM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 1:06 PM**	**10/06/2011 10:40 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010501**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 10:00 AM**	**10/07/2011 9:26 AM**	2000	200	3970		3970		mg/L	
Sulfate	**09/30/2011 10:00 AM**	**10/06/2011 6:50 PM**	1000	200	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 10:00 AM**	**10/01/2011 11:03 AM**	2	0.02	0.511		0.511	J	mg/L-N	*
Nitrite	**09/30/2011 10:00 AM**	**10/01/2011 11:32 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00321	N	0.00321		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00254	N	0.00254	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 10:00 AM**	**10/03/2011 8:56 AM**	1	1	59.3		59.3		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 10:00 AM**	**10/03/2011 11:00 AM**	1	10	9500		9500		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 10:00 AM**	**10/01/2011 9:53 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 10:00 AM**	**10/06/2011 10:06 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010502**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	100	3060		3060		mg/L	
Sulfate	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	200	1810		1810		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 12:36 PM**	**10/01/2011 10:50 AM**	1	0.01	0.899		0.899	J	mg/L-N	*
Nitrite	**09/30/2011 12:36 PM**	**10/01/2011 11:36 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.00314	N	0.00314		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.0027	N	0.0027	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 12:36 PM**	**10/03/2011 8:56 AM**	1	1	79.4		79.4		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 12:36 PM**	**10/03/2011 11:00 AM**	1	10	7640		7640		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 12:36 PM**	**10/01/2011 9:55 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 12:36 PM**	**10/06/2011 10:08 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**EB-1**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Equipment Rinsate**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010504**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.1	0.104		0.104		mg/L	
Sulfate	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.2	0.079	U	0.079	U	mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 8:00 AM**	**10/04/2011 10:48 AM**	1	0.01	0.003	U	0.003	UJ	mg/L-N	*
Nitrite	**10/03/2011 8:00 AM**	**10/04/2011 11:33 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 8:00 AM**	**10/05/2011 8:30 AM**	1	1	0.34	U	0.34	U	mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 8:00 AM**	**10/04/2011 2:30 PM**	1	10	7	U	7	U	mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 8:00 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 8:00 AM**	**10/06/2011 10:11 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010505**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	100	3130		3130		mg/L	
Sulfate	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	200	1580		1580		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 9:32 AM**	**10/04/2011 10:49 AM**	1	0.01	0.245		0.245	J	mg/L-N	*
Nitrite	**10/03/2011 9:32 AM**	**10/04/2011 11:35 AM**	1	0.01	0.003	B	0.003	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00278	N	0.00278		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00277	N	0.00277	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 9:32 AM**	**10/05/2011 8:02 AM**	1	1	79.8		79.8		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 9:32 AM**	**10/04/2011 2:30 PM**	1	10	7610		7610		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 9:32 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 9:32 AM**	**10/06/2011 10:12 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010506**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	100	3920		3920		mg/L	
Sulfate	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	200	1880		1880		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 11:46 AM**	**10/04/2011 11:04 AM**	1	0.01	0.43		0.43	J	mg/L-N	*
Nitrite	**10/03/2011 11:46 AM**	**10/04/2011 11:41 AM**	1	0.01	0.005	B	0.005	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00406	N	0.00406		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00329	N	0.00329	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 11:46 AM**	**10/05/2011 8:02 AM**	1	1	53.5		53.5		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 11:46 AM**	**10/04/2011 2:30 PM**	1	10	9870		9870		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 11:46 AM**	**10/04/2011 11:13 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 11:46 AM**	**10/06/2011 10:15 AM**	1	0.005	0.0009	B	0.0009	B	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	10/5/11

Report to:
Client: Trinity Analysis + Development
Address: 1007 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196A)	Cl/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7955 4081 4998	[signature]	9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	

Report to:
Client: Trinity Analysis & Development Corp
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 833 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/504/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9010/7A	Remarks:	Lab ID
W	9/28/11	1028		x	MA02 MW001D		13	x	x	x	x	x	x	x	x	x	x		7
W	9/28/11	1028		x	FD-1		13	x	x	x	x	x	x	x	x	x	x		8
W	9/28/11	1028			TB-2		3	x											9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	9-29-11	915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only: Trinity	4747	211092804	10/7/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (1196A)	Cl/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X	-										13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	Date: 9/30/11	Time: 0945
Relinquished by: (Signature) 2775 5001 2786	Received by: (Signature)	Date:	Time:

Note: * Hex Chrome 24 hr hold time *

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~21100105~~	10/7/11

Report to:
Client: Trinity ADC
Address: 607 N Kolin Pkwy
Shreveport, FL 33579
Contact: S. Kramer
Phone: 550 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C: ~~1.9~~, 5.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (EPA 314.0)	Perchlorate (DWS 331.0)	Hex Chrome (7196A)	CL/SO4/NO3 (HCL)	Alk/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1030		X	MW14 MW004		15	X	X	X	X	X	X	X	X	X	X	21100105-	1
W	9/30/11	1056		X	MW14 MW001		13	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1100			TB-5		3	X											3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	9/30/11	1500
FedEx	[signature]	10/1/11	900

Note: * 24-hour hold

By submitting these samples, you agree to the terms and

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804 HMK ~~211100105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Wilson Century
Shalimar, FL 32579
Contact: Jonathan Klamer
Phone: 850 613 ~~7880~~ 0800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Mellow Semi-Annual
Sampled By: Ben Stewart, Jonathan Klamer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)		Remarks 211100105	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X			4
W	10/3/11	0932		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X			5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X			6
W	10/3/11	0800		X	TB-6		3	X												7

Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/3/11	1400
FedEx 8735 5941 2870	[signature]	10/4/11	900

Note: * 24-hr hold time on Hex Chrome*

By submitting these samples, you agree to the terms and

211092804

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2891, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870

1.0 SUITABILITY OF THE DATA

All analytical data was evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA; Contract Laboratory Program, National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA; Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). The eDATApro Data Validation Reports are included in Appendix E. Two Sample Delivery Groups from the Spring 2011 sampling event and one from the Fall 2011 sampling event were evaluated by eDATApro and include the following:

Sample Delivery Groups – Spring 2011

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Annual Ground Water Quality Network	211050608	TB1	21105060803	5/5/2011	9:26:00 AM
		TB2	21105060804	5/5/2011	9:26:00 AM
		MAO2MW001D	21105060801	5/5/2011	12:23:00 PM
		M114MW004	21105060802	5/5/2011	3:16:00 PM
		TB4	21105060808	5/6/2011	12:00:00 AM
		TB5	21105060809	5/6/2011	12:00:00 AM
		M114MW002	21105060805	5/6/2011	11:35:00 AM
		EB1	21105060806	5/6/2011	12:30:00 PM
		M114MW003	21105060807	5/6/2011	2:30:00 PM
		TB6	21105060814	5/9/2011	12:00:00 AM
		M114MW001	21105060815	5/9/2011	9:55:00 AM
		M114MW001-DUP	21105060816	5/9/2011	9:55:00 AM
		MAO1MW001	21105060810	5/9/2011	2:16:00 PM
		MAO1MW001-MS	21105060811	5/9/2011	2:16:00 PM
		MAO1MW001-MSD	21105060812	5/9/2011	2:16:00 PM
		TB8	21105060817	5/10/2011	12:00:00 AM
		TB7	21105060820	5/10/2011	12:00:00 AM
		MAOMW004	21105060818	5/10/2011	11:11:00 AM
		MAOMW003	21105060819	5/10/2011	1:20:00 PM
		TB9	21105170903	5/16/2011	12:00:00 AM
		MAO1MW002	21105170901	5/16/2011	9:35:00 AM
		MWQ23	21105170902	5/16/2011	11:10:00 AM

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual Ground Water Quality Network	211050426	MWQ-3	21105042601	5/3/2011	9:15:00 AM
		MWQ-4	21105042602	5/3/2011	10:18:00 AM
		MWQ-5	21105042603	5/3/2011	11:57:00 AM
		MWQ-5-DUP	21105042604	5/3/2011	11:57:00 AM
		MWQ-6	21105042605	5/3/2011	1:12:00 PM
		MWQ-7	21105042606	5/3/2011	1:53:00 PM
		MWQ-10	21105042607	5/3/2011	3:23:00 PM
		MWQ-10-MS	21105042608	5/3/2011	3:23:00 PM
		MWQ-10-MSD	21105042609	5/3/2011	3:23:00 PM
		MWQ-2	21105042611	5/5/2011	9:26:00 AM
		MWQ-22	21105042612	5/11/2011	11:01:00 AM
		MWQ-21	21105042613	5/11/2011	1:05:00 PM
		MWQ-19	21105042614	5/12/2011	9:50:00 AM
		MWQ-18	21105042615	5/12/2011	12:40:00 PM
		MWQ-14	21105042616	5/13/2011	12:31:00 PM
		MWQ14-MS	21105042617	5/13/2011	12:31:00 PM
		MWQ14-MSD	21105042618	5/13/2011	12:31:00 PM
		MWQ-20	21105042620	5/17/2011	1:22:00 PM
		MWQ-20 DUP	21105042621	5/17/2011	1:22:00 PM
		EB2	21105042622	5/18/2011	10:30:00 AM
		MWL6	21105190401	5/18/2011	2:30:00 PM

Sample Delivery Groups – 2011 Semiannual Fall

	SDG	Sample ID	Lab ID	Sample Date	Sample Time		Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual	2110928048	MA01MW001	21109280401	9/27/2011	9:33:00		TB-4	21109280413	9/29/2011	8:40:00
		MA01MW003	21109280402	9/27/2011	12:21:00 PM		MA01-MW004	21109280411	9/29/2011	11:10:00
		MA01MW003-MS	21109280403	9/27/2011	12:21:00 PM		MA01-MW002	21109280412	9/29/2011	1:06:00 PM
		MA01MW003-MSD	21109280404	9/27/2011	12:21:00 PM		M114MW004	21110010501	9/30/2011	10:00:00
		MA01MW003-DUP	21109280406	9/27/2011	12:21:00 PM		TB-5	21110010503	9/30/2011	10:00:00
		TB-1	21109280405	9/27/2011	4:33:00 PM		M114MW001	21110010502	9/30/2011	12:36:00 PM
		MA02 MW001D	21109280407	9/28/2011	10:28:00		EB-1	21110010504	10/3/2011	8:00:00
		FD-1	21109280408	9/28/2011	10:28:00		TB-6	21110010507	10/3/2011	8:00:00
		TB-2	21109280409	9/28/2011	10:28:00		M114MW002	21110010505	10/3/2011	9:32:00
		MWQ-23	21109280410	9/29/2011	8:40:00		M114MW003	21110010506	10/3/2011	11:46:00

1.1.1.1 Holding Times

Review of the sample collection and analyses dates involved comparing the COCs, the chemical results summary forms, and the raw data forms for accuracy, consistency, and holding time compliance. All samples were prepared and analyzed within the required holding time criteria with the exception of the following:

- **2011 Annual Spring (SDG 211050426)**
  1. MWQ-3 was received after expiration of the 24-hour holding time for Chromium VI. MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, and MWQ-7 were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. Accordingly, the sample results were qualified as estimated "J" or estimated non-detect "UJ."
- **2011 SemiAnnual Fall (SDG 2110928048)**
  1. Recovery of the surrogate analyte 1,2-dinitrobenzene for explosives by method 8330 in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.
  2. Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).

1.1.1.2 Blank Samples

- **2011 Annual Spring (SDG 211050426)**
  1. Measurable quantities of arsenic (total), cadmium (total), and manganese (total) were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples

with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

2. Measurable quantities of antimony (total) and lead (total) were observed at a concentration less than the laboratory RL in one or more initial calibration blank/continuing calibration blank (ICB/CCB) samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
3. A measurable quantity of (total) cadmium was observed at a concentration less than the laboratory RL in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
4. Measurable quantities of (total) arsenic, cadmium, copper, and manganese were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
5. Measurable quantities of arsenic (dissolved) and cadmium (dissolved) were observed at a concentration less than the laboratory RL in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
6. Measurable quantities of antimony (dissolved) and lead (dissolved) were observed at a concentration less than the laboratory RL in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
7. A measurable quantity of cadmium (dissolved) was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

8. Measurable quantities of cadmium (dissolved), copper (dissolved), manganese (dissolved), nickel (dissolved), and zinc (dissolved) were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

- **2011 Semiannual Spring (SDG 211050608)**

1. A measurable quantity of acetone was observed at a concentration less than the laboratory RL in preparation blank sample MB945623. The laboratory qualified associated results with "B." This qualifier was removed from non-detect values. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
2. A measurable quantity of nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory result of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.
3. A measurable quantity of manganese (total) was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
4. Measurable quantities of total analytes barium (total), copper (total), manganese (total), and zinc (total) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.
5. Measurable quantities of barium (dissolved) and cadmium (dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (dissolved). Laboratory results of these analytes in samples with measurable

concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.

6. A measurable quantity of barium (dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The barium (dissolved) result in sample EB1 was modified to non-detect (U) at the RL.
7. Measurable quantities of aluminum (Dissolved), arsenic (Dissolved), cadmium (Dissolved), copper (Dissolved), and zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.

- **2011 SemiAnnual Fall (SDG 2110928048)**

1. An estimate concentration of acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.
2. Estimate concentrations of acetone and methylene chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.
3. Estimate concentrations of acetone and methylene chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.
4. An estimate concentration of sodium (total) was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.
5. Estimated concentrations of sodium (total) were observed in the CCBs bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and

MA01-MW002. No estimated concentrations of this analyte were reported in these samples. No result qualifications were necessary.

6. An estimate concentration of barium (total) was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
7. An estimate concentration of silver (total) was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
8. Estimate concentrations of manganese (total), nickel (total), and zinc (total) were reported in equipment rinsate blank sample EB-1. The laboratory results for manganese in samples M114MW002 and M114MW003 and nickel in sample M114MW002 were modified to non-detect (U) at the RL.

1.1.1.3 Surrogate Compounds

- **2011 Annual Spring (SDG 211050426)**

  In accordance with the updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) VOCs and explosives are not part of the required analytical suite for Annual wells.

- **2011 Semiannual Spring (SDG 211050608)**

  Surrogate recoveries for all VOC and explosive samples were within evaluation criteria.

- **2011 SemiAnnual Fall (SDG 2110928048)**

  Recovery of the surrogate analyte 1,2-dinitrobenzene for explosives by method 8330 in samples MWQ-23, MA01-MW002, M114MW002 and, M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as

non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.

1.1.1.4 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- **2011 Annual Spring (SDG 211050426)**

  All LCS/LCSD QC samples were within evaluation criteria.

- **2011 Semiannual Spring (SDG 211050608)**

  Recovery of target analyte HMX in the LCS/LCSD from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a "Q." This qualifier was removed during the validation review.

- **2011 SemiAnnual Fall (SDG 2110928048)**

  All LCS/LCSD QC samples were within evaluation criteria.

1.1.1.5 Field Duplicate Analysis

Field duplicate sample pair results were within evaluation criteria (25 percent relative percent difference [RPD] or within ±two times the RL if either the sample or duplicate are less than five times the RL) for VOCs, and explosives duplicate sample pairs. Some metals parameters did not meet the field duplicate criteria. Analytical results for the field duplicate sample pairs are presented in the table below.

Field Duplicate Analysis

Chemical Name	Units	2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
		M114MW001	Duplicate	RPD	MWQ-5	Duplicate	RPD	MWQ-20	Duplicate	RPD	MAO2MW001D	Duplicate	RPD
		Result	Result		Result	Result		Result	Result		Result	Result	
Aluminum	ug/L	60	64.5	7.2	60	60	0.0	261	285	8.8	60	78.9	**27.2**
Antimony	ug/L	4.03	4.03	0.0	4.03	4.03	0.0	20.3	4.8	**123.5**	3.98	3.98	0.0
Nickel	ug/L	19.7	20.7	5.0	0.96	0.96	0.0	0.96	0.96	0.0	1.43	1.82	**24.0**
Aluminum (Dissolved)	ug/L	77.6	60	**25.6**	60	60	0.0	60	60	0.0	60	60	0.0
Antimony (Dissolved)	ug/L	4.03	4.03	0.0	4.74	4.03	16.2	6	4.33	**32.3**	3.98	3.98	0.0
Arsenic (Dissolved)	ug/L	2.74	2.53	8.0	7.43	8.16	9.4	3.95	2.53	**43.8**	3.49	3.85	9.8
Nickel (Dissolved)	ug/L	19.1	19.6	2.6	0.96	0.96	0.0	0.96	0.96	0.0	2.14	1.58	**30.1**
Chromium VI	ug/L	2.8	2.8	0.0	2.8	2.8	0.0	2.8	2.8	0.0	3.3	6	**58.1**

1.1.1.6

1.1.1.7 Matrix Spike/Matrix Spike Duplicate Analysis

The MS/MSD recoveries for inorganic compounds (calcium, magnesium, and sodium) with sample concentrations greater than four times the matrix spike concentration did not require evaluation or qualification. The data review guidelines established in the QAPP state that organic data (mercury) will not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of data was required. MS/MSD recoveries and RPDs that were outside control limits are listed in the following table.

Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated "UJ."

Recovery of numerous explosives analytes in the matrix spike and matrix spike duplicate fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.

MS/MSD Summary

Parameter	Limits		2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
			MAO1MW001			MWQ-10			MWQ-14			MAO2MW001D		
	Min	Max	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD
1,3,5-Trinitrobenzene	65	140	139.4	**148.7**	6.5	na	na	na	na	na	na	86.9	72.1	18.7
2,4,6-Trinitrotoluene	50	145	141.0	**147.6**	4.5	na	na	na	na	na	na	73.6	61.9	17.3
2,4-Dinitrotoluene	60	135	**147.2**	**154.3**	4.7	na	na	na	na	na	na	91.6	73.2	22.4
2,6-Dinitrotoluene	60	135	**153.9**	**162.5**	5.5	na	na	na	na	na	na	80.2	60.9	27.5
2-Nitrotoluene	45	135	**188.6**	**195.9**	3.8	na	na	na	na	na	na	72.5	60.8	17.6
3-Nitrotoluene	50	130	**157.1**	**164.1**	4.4	na	na	na	na	na	na	63.2	**46.9**	29.5
4-Amino-2,6-dinitrotoluene	55	155	142.6	151.8	6.2	na	na	na	na	na	na	63.1	**55.0**	13.7
4-Nitrotoluene	50	130	**163.9**	**171.5**	4.5	na	na	na	na	na	na	58.7	**44.3**	28.0
Calcium	80	120	90.0	100.0	10.5	**128.0**	116.0	9.8	**192.0**	**210.0**	9.0	**126.0**	98.0	25.0
Calcium	80	120	106.0	**64.0**	49.4	**56.0**	**126.0**	76.9	**178.0**	**164.0**	8.2	**202.0**	**208.0**	2.9
HMX	80	115	**124.0**	**131.0**	5.5	na	na	na	na	na	na	102.0	81.3	22.6
m,p-Xylene	75	130	**196.0**	**187.8**	4.3	na	na	na	na	na	na	**207.8**	**203.8**	1.9
Magnesium	80	120	88.0	**68.0**	25.6	**138.0**	116.0	17.3	**172.0**	**212.0**	20.8	**120.0**	**78.0**	42.4
Magnesium	80	120	82.0	**62.0**	27.8	**56.0**	**130.0**	79.6	**150.0**	**166.0**	10.1	**236.0**	**172.0**	31.4
Mercury	80	120	94.0	94.4	0.4	111.4	104.2	6.7	**79.6**	**76.2**	4.4	88.3	86.3	2.3
Mercury	80	120	91.6	94.4	3.0	109.8	104.2	5.2	**78.6**	81.4	3.5	84.9	86.1	1.4
Nitrobenzene	50	140	**155.7**	**159.2**	2.2	na	na	na	na	na	na	85.7	69.1	21.5
Sodium	80	120	**135.0**	**135.0**	0.0	101.0	103.5	2.4	**240.0**	**335.0**	33.0	**165.0**	**135.0**	20.0
Sodium	80	120	**160.0**	**-15.0**	241.4	88.0	98.0	10.8	**245.0**	**220.0**	10.8	**460.0**	**300.0**	42.1
Tetryl	20	175	**175.6**	**197.0**	11.5	na	na	na	na	na	na	45.4	32.3	33.7
Total Cyanide	80	120	93.4	95.0	1.7	**73.8**	**74.0**	0.3	**78.0**	**78.4**	0.5	98.6	98.2	0.4

TRINITY
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January 25, 2013

Mr. Matthew Higginbotham
ERP Manager
27 SOCES/CEAN
506 N DL Ingram Blvd
Cannon AFB, NM 88103-5003

RE: **Response to New Mexico Environment Department Comments**
Notice of Disapproval (*Dated September 26, 2012***)**
December 2011 Annual Ground Water Monitoring Report
Melrose Air Force Range, New Mexico
USACE Contract No.: W9128F-10-D-0091, Task Order 006

Dear Mr. Higginbotham,

The New Mexico Environment Department (NMED) reviewed the *December 2011 Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico* submitted to Cannon Air Force Base on January 11, 2011 and issued a Notice of Disapproval (NOD) on September 26, 2012. The document was reviewed by Ms. Lane Andrees and signed by Mr. John Kieling, Bureau Chief, Hazardous Waste Bureau.

Based on the comments and some recurrent comments, Trinity Analysis & Development Corp. (TRINITY) requested a meeting with NMED and Cannon to discuss the NOD with the intent to better understand NMED's position, prior to generating another version of the document. Personnel from Cannon Air Force Base (Mr. Matt Higginbotham) and TRINITY (Mr. Jonathan Kramer, and Mr. Richard Burdine, PG) met with personnel from NMED (Mr. Dave Cobrain, Ms. Leona Tsinnajinnie, Mr. Dan Comeau, and Ms. Neelam Dhawan) on January 10, 2013 at their office in Santa Fe, New Mexico. Based on NMED's initial comments and the discussions during our meeting on January 10, 2013, TRINITY has developed the following responses.

GENERAL COMMENTS

Comment 1:

On October 27, 2009 NMED issued a letter outlining requirements for future ground water monitoring reports at MELR. NMED subsequently issued two Notices of Disapproval (NODs) dated March 11, 2011 and August 19, 2011, respectively, for the 2010 Annual Groundwater Monitoring Report dated December 2010. These three letters described necessary changes to the presentation of data, historical data tables, well construction details table, sampling analytical suite for metals and the required sampling schedule for metals for MELR ground water monitoring and reports. Several of the requirements included in those letters were not met in either the revised

2010 GWMR or the 2011 GWMR. Incorporate comments from previous written communications in the revised 2011 Report as well as all future ground water monitoring reports and work plans. Use the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003* as a guideline for all future ground water monitoring reports. A copy of this paper can be found on NMEDs website at this link: - http://www.nmenv.state.nm.us/HWB/data/General Reporting Requirements for%20Routine GW Monitoring.pdf

Response 1:

The 2011 Annual Ground Water Monitoring Report will be updated utilizing the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003* as guidance. Previous NMED comments will be addressed utilizing the guidance.

Comment 2:

Appendix D Analytical Data; the laboratory reports included in the report total approximately 3,000 pages, this makes finding specific information difficult. Many of these laboratory reports are submitted in the form of Level 4 data packages. NMED does not require Level 4 data packages, Level 2 data packages from laboratory are preferred by NMED for inclusion in the reports. The Level 4 package must be stored either at the facility or contract laboratory for future reference.

Response 2:

All future submittals, beginning with the Revised *2011 Annual Ground Water Monitoring Report*, will include only Level 2 data packages with the Level 4 data available upon request.

Comment 3:

The Report contains several instances regarding the acceptability of laboratory results (see Comments 26, 27, 28). MELR is advised that re-sampling of the site may be required if data quality issues persist in future sampling events.

Response 3:

Please see Response to Comments 26, 27, and 28.

Comment 4:

Tables included in the report are difficult to read due to small font size. All tables must be legible in the revised Report and all future reports (e.g., by reducing margins, increasing font size, adjusting column widths, and adding additional pages per table).

Response 4:

Noted; all applicable tables will be revised so that they are more legible in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 5:

The Report does not contain a data table summarizing historical analytical results. NMED issued two NOD's to the Permittee for the 2010 GWMR (see Comment 1). Comment 5 of the first NOD letter dated March 11, 2011 instructed the Permittee to "[r]evise the Report to present the data in tables that allow for comparison of the results spatially through time." Comment 8 of the second NOD letter dated August 19, 2011 also instructed MELR to include data from previous sampling events. MELR's response to comments for the August 19, 2011 NOD letter states "TRINITY has pulled all available historical data into one location so that we can build on this data in the future." A table including historical analytical results is not included in the 2011 ground water monitoring Report.

Include a table summarizing historic analytical results in the revised Report and all future reports. The historic data table for analytical results must include a minimum of eight ground water sampling events (four years). NMED understands that at Melrose Air force Range, the 2009 baseline ground water monitoring event may be the earliest reliable data for the starting point for the historical tables. This is acceptable.

Response 5:

All available historical data was presented in tabular and graphical form in Appendix C of the report, albeit smaller font than desired. We have increased the font size and separated the trend graph onto a separate page as was provided in the meeting on January 10, 2013. All of the data tables will be revised accordingly.

Comment 6:

Individual Solid Waste Management Units (SWMUs) are not labeled on Figure 5 (Median Ground Water Flow Direction, 2002 to 2003 (USGS)), Figure 7 (Annual Ground Water Monitoring Well Network Locations), Figure 8 (Ground Water Flow Map 5-3-2011 to 5-16- 2011), or Figure 9 (Ground Water Flow Map 9-26-2011 to October 2, 2011) of the Report. Label all SWMUs on Figures 5, 7, 8 and 9 in the revised Report and on all relevant figures included in future work plans and reports.

Response 6:

All figures will have the SWMU's located on them in the *Revised 2011 Annual Ground Water Monitoring Report* and all future reports. Based on the NMED Position Paper a figure(s) presenting groundwater chemical analytical data for the current monitoring event should also be included. However, based on the discussion with NMED during the January 10, 2013 meeting this figure would not be necessary as there are no contaminants of potential concern (COPCs) identified, and thus to post on a figure, for Melrose AFR.

Comment 7:

Table 3 (Summary of Analytical Results (5/3/2011- 5/18/2011)) and Table 4 (Summary of Analytical Results (9/27/2011 -10/3/2011)) does not indicate if the table presents results from the annual or semi-annual sampling event. To avoid confusion, in the revised Report and all future reports, the tables must also be labeled as either the annual or semi-annual event for clarity

Response 7:

The top most row of Table 3 and 4 indicates if the table presents results from the annual or semi-annual sampling event. Additionally, Comment 32 below requests that these tables be removed from the report.

Based on the NMED Position Paper a table including remediation system monitoring data should also be included. There is no identified contamination at Melrose associated with this sampling and therefore no remediation system is required or exists. This table is not applicable and thus not included.

Comment 8:

Appendix C (Parameter Summary and Trends); on the analyte summary graphs only one well and one analyte is represented on each 1.5 inch by 3 inch graph. This makes comparison of changes in analyte concentrations vs. time between wells difficult. In the revised Report, and all future ground water monitoring reports, include one additional graph per analyte, which shows all monitoring wells on the same analyte graph for comparison purposes. This graph must be of a large enough size to be readable (e.g., 11 x 17" paper).

Response 8:

Noted; the additional graph showing all monitoring wells on the same analyte graph will be included for comparison purposes in the *Revised 2011 Annual Ground Water Monitoring Report*.

SPECIFIC COMMENTS

Comment 9:

Section 7.1.1, Background Water Quality, page 7-5, last paragraph states "[b]ased on major ion chemistry, temperature, specific conductance, and TDS, etc. it appears that the water quality associated with MWQ-23 is similar to ground water associated with the local flow system in the Impact Area ... MWQ-23 would therefore appear to be a viable option as a background well for the collection of ground water samples." According to the table General Background Water Quality-MWQ-23 on page 7-6, ground water quality indicators such as dissolved oxygen, conductivity, and sodium concentration differ by orders of magnitude between the Impact Area (MWQ8) and MWQ-23. Resolve this discrepancy in the revised Report.

Response 9:

Agreed. This has been overcome by events since TRINITY had previously requested NMEDs input on this matter in the previous two annual reports and the work plan, we proceeded to sample this well. This location was

tested in an attempt to save the USAF and the taxpayer approximately $50,000 in new well installation. However, based on review of the collected groundwater quality information from MWQ-23, we agree it does not appear to represent an ideal background water quality sampling location. In addition, no well construction details are known about this well.

A background monitoring well had initially been requested on October 27, 2009 when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009). In that response NMED stated:

> "*NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
>
> *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…*"

The subsequent contractor, Tidewater, Inc. was not under contract to install a background monitoring well as discussed in the *Response to Comments contained in the February 11, 2010 Notice of Disapproval to the Draft Work Plan, Groundwater Monitoring, Melrose Air Force Range, New Mexico, October 2009, (Tidewater, 2009)*.

TRINITY is currently under contract to install this background monitoring well. Based on previous approval and the failed attempt to utilize existing resources, TRINITY will reiterate the agreed upon installation of MWQ-24 adjacent to MWQ-10 in the *Revised 2011 Annual Groundwater Monitoring Report*. Although TRINITY is currently funded to install this well, the original scope of work did not specify or require the need for a "Well Installation Work Plan." Dependent upon funding, which is currently being discussed with Cannon, TRINITY may submit a well installation work plan, under separate cover, to Cannon AFB for submittal to NMED. Additionally, based on NMED's comment in the October 27, 2009 review TRINITY will propose, in the *Revised 2011 Annual Groundwater Monitoring Report*, to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the monitoring network. A proposal to remove MWQ-10 from the network will not be requested until installation of the new background well has been completed.

Comment 10:

According to Table 1 (Well Construction Details) MWQ-23 is not-accessible. The "Notes" column of Table 1 indicates MWQ-23 is the new background well and according to Table 2 (Summary of Analytical Results- 2011) MWQ-23 was sampled on 5/3/11 and 9/29/11, and therefore accessible. Correct this discrepancy in the revised Report. Also, static depth to water measurements were not included on the field sampling forms for MWQ-23 for these sampling events. In the revised Report explain why depths to water (DTW) measurements were not collected at MWQ-23.

Response 10:

Ground water samples were collected from MWQ-23. NMED is correct, the well is accessible. The note on Table 1 should be more explicit and state that "*it was not possible to collect a water level from the well due to the*

construction details and having a dedicated pump system." The access plug on the steel case that normally allows for access appears fused to the well-head. Additionally, where access is possible on similarly constructed wells at Melrose AFR water level probes commonly get stuck in pump wiring and drop pipes. A more detailed discussion of well head accessibility will be included in the *Revised 2011 Annual Groundwater Monitoring Report* and all future reports. As discussed in Response 9, TRINITY will propose that MWQ-23 no longer be sampled and that the previously proposed background well be installed adjacent to MWQ-10.

NOTE: Please understand that due to the timing of receipt of these comments, decided responses, etc……that MWQ-23 was sampled in the Fall 2012 sampling event. However, this data will be removed from the 2012 Annual Groundwater Monitoring Report to eliminate the possibility of a recurring comment.

Comment 11:

According to Table 1 (Well Construction Details) MWQ-2 is screened within the Chinle Group. On Figure 8 (Ground Water Flow Map 5-3-2011 to 5-16-2011) and Figure 9 (Ground Water Flow Map 9-26-2011 to October 3, 201[1]) MWQ-2 is being mapped with wells in the Ogallala aquifer to calculate ground water flow direction. Wells from different aquifers cannot be accurately combined on a single ground water flow map. Modify Figures 8 and 9 in the revised Report and all future reports accordingly.

Response 11:

Noted; well depths and screened intervals will be added to the groundwater elevation summary table as required by the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites*, February 14, 2003. In addition, since we do not have or cannot obtain the original Boring Logs or Well Construction Detail forms for this well, we will not presume that any previous geologic/hydrogeologic interpolation was correct. Therefore, this well and any other wells that may or could be influenced by another aquifer will be removed from developing the ground water flow regime at Melrose.

Comment 12:

In Section 4.2, Hydrogeology, page 4-5, second paragraph, MELR states "[w]ater level contours for the unconfined Southern High Plains Aquifer indicate ground water flows predominantly to the northeast from the Mesa to the Portales Valley ... [t]he flow direction changes in the Portales Valley, indicating two flow systems are present, one local, and one regional ... [i]t appears that the direction of ground water flow reflects the contact between the Ogallala and Chinle formations ... " Section 4.2 Hydrogeology, page 4-6, second paragraph states "[r]esults of water quality analysis for samples collected ... indicate three areas or sources of different water types at Melrose APR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley." Section 7.1.1 Background Water Quality further states "[t]he difference in water quality is likely attributable to the upward potential/migration of ground water from the Chinle Formation." Section 7.1.4 Annual Ground water Quality Network, Page 7-19, 2nd paragraph " ... where mixing with ground water from the Chinle Formation may be occurring ... " and "The high variability of water quality, with respect to chloride, manganese, sulfate, and TDS appears to be attributable to variable degrees of "mixing" with ground water from the underlying Chinle Formation"

According to the data presented in Table 1 (Well Construction Details) the well screen intervals in wells being used for groundwater monitoring are unknown and therefore, the aquifers that the well screens intersect is also unknown. It is possible that the mixing could be occurring within wells screened across both the Chinle and Ogallala Formation, rather than upward migration of ground water from the Chinle into the overlying Ogallala.

Information such as the well screened intervals and well boring stratigraphy is crucial to a valid site conceptual model. Determine the screened intervals in each well and current total well depths for all wells being used for ground water monitoring to justify the current site conceptual model (see Comment 13).

Response 12:

TRINITY has made every attempt to retrieve well construction details (total depth, screened interval, e.g.) from the Cannon AFB/Melrose AFR Administrative Record, with limited success. The *Revised 2011 Annual Groundwater Monitoring Report* will be revised to emphasize these data gaps. NMED has suggested that in the updated 2011 Annual Report that TRINITY propose field methods (e.g. video log) for identifying well construction details, such as screened interval and total depth. In the updated *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY will propose a combination of downhole video log and geophysical logs (natural gamma) to determine the total depth, screened interval, and in which formation (Ogallala or Chinle) the monitoring wells and USGS wells are installed.

As discussed in the January 10, 2013 meeting it is not practical to determine the screened interval from the livestock/irrigation wells. Additionally and as previously discussed in Response 9, based on NMED's comment in the October 27, 2009 review letter TRINITY will propose, in the revision to the *Revised 2011 Annual Groundwater Monitoring Report*, to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the monitoring network. A proposal to remove MWQ-10 from the network will not be requested until installation of the new background well has been completed.

It should also be noted that TRINITY is not currently funded to conduct additional investigations such as downhole video or geophysical logging at Melrose AFR. Dependent on funding, this work may or may not occur under TRINITY's current contract which expires in June 2013.

FIELD RELATED

Comment 13:

As discussed in Comment 12, well screened interval and total well depth is not known for several wells. MELR's response to Comment 3 from the March 11, 2011 NOD states "[d]uring the [20 11] spring Semiannual and Annual sampling event TRINITY will have more time on-site and will continue to refine/correct any discrepancies ... to confirm the well construction details." This information was not provided. Include this information in the 2012 GWMR. Section 6.4, Monitoring Network Well Inspection/Maintenance, page 6-9 states "[w]ell inspections sought to verify ... total well depth, well type completion ... etc. Well conditions ... are summarized in Table 1 ... " According to Table 1 (Well Construction Details) it appears that information regarding total well depth and well screen intervals of wells has not been further refined during the 2011 sampling events and a discussion was not provided in the 2011 GWMR regarding this matter.

Information such as depth to groundwater, total well depth, depth to top of well screen, depth to bottom of screen, screen length, and the most recent depth to ground water measurement (as opposed to ground water elevation) for all gauged wells must be included in Table 1 in the revised Report and all future ground water monitoring reports. Depth to water measurements must be collected in all accessible wells during each sampling event and included in all future ground water monitoring reports. A clear explanation must be provided in all future reports if this information is not obtained for specific wells. If this information or an explanation for omission of the data is not provided, the reports will be rejected with a requirement to submit a complete report included with the rejection. See Comment 12.

The revised Report must provide documentation of which old stock-wells are screened & which are open hole and provide documentation of well screen intervals for all wells being used for ground water monitoring (e.g., copies of field documents, boring logs, well construction records, reports). If this information remains unavailable after a thorough records search, propose field methods to identify well construction details (e.g., video log) in the revised Report.

Response 13:

See Response 12. Water levels, including depth to water below top of casing and elevation were provided in the water elevation summary table. The table will be updated to include known well construction details as previously discussed in Response 6. Data gaps will clearly be outlined in the *Revised 2011 Annual Groundwater Monitoring Report* and all future reports.

Comment 14:

Section 7.1.3.1, SWMU 114, page 7-14, bottom of page states "[g]round water quality in the immediate vicinity of SWMU 114 ... comparison to the background ground water quality at MWQ-23 is most representative." According to Table 1 (Well Construction Details) the well screen information and total depth of the well is currently unknown. To determine whether MWQ-23 is representative of the hydrogeologic conditions at SWMU 114 the total depth of the well and well screen intervals must be determined (see Comments 12 and 13). This information must be determined in order to continue using MWQ-23 as a background well. Include this information in the 2012 groundwater monitoring report. Revise this statement accordingly in the revised Report.

Response 14:

See Response 9, 12 and 13. TRINITY agrees MWQ-23 does not meet the criteria for a background well and will proceed with preparations to install the previously approved location adjacent to MWQ-10, pending funding for a Well Installation Work Plan, etc.

Comment 15:

In Section 6.3, Ground Water Elevation Measurements, page 6-9 no detail is given on how ground water elevation measurements were obtained from wells containing dedicated pumps. Include a description of water elevation measurement methods for wells with dedicated pumps and identify the wells that contain dedicated pumps. Table 5 (Ground Water Levels) contains several blank cells, it is not clear if this indicates that a ground water

measurement was not obtained or why no measurement was taken. Depth to water measurements must be collected in all accessible wells during each sampling event and included in all future ground water monitoring reports. A clear explanation must be provided in all future reports if this information is not obtained for specific wells. If this is not included in the reports, the reports will be rejected (see Comment 13). Revise Table 5 to indicate the meaning of blank cells and explain why ground water measurements were not obtained for these wells in the footnotes. Additionally, MWQ-23 is not included on Table 5 Ground Water Levels; revise Table 5 to include MWQ-23.

Response 15:

A general discussion of methods for collecting ground water levels will be included in the *Revised 2011 Annual Groundwater Monitoring Report* and Table 5 will be updated to exclude blanks cells and include clear descriptions of why a water level could not be collected. Please note that Melrose AFR is an active military bombing and training range and that access to portions of the range is commonly restricted or limited. Additionally, water levels are not typically collected from wells with integral plumbing due to the high likelihood that the water level tape will become entangled in the electrical wiring. A more detailed discussion of well access issues will be included in the updated *Revised 2011 Annual Groundwater Monitoring Report.*

Comment 16:

Table 1 (Well Construction Details) includes an incomplete explanation (key). Include the entire key with Table 1. Table 2 (Summary of Analytical results- 2011) has no key. Revise Table 2 to include a key. The key on Table 5 (Ground Water Levels) does not indicate what units the measurements are in or what the blank cells indicate. Revise Table 5 to define units and the significance of blank cells. Include the revised tables in the revised Report.

Response 16:

Noted; based on NMED's comments all tables will be revised in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 17:

Section 6.3, Ground Water Elevation Measurements, page 6-9, first paragraph states "[t]he probes were decontaminated before use, between wells, and at the conclusion of measurement activities." The Report does not indicate whether the water level indicator tape was decontaminated in the same manner. Include this information in the revised Report.

Response 17:

Noted; the text will be more explicit in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 18:

Section 6.1.1, 2011 Semiannual Spring-Ground Water Quality Network, page 6-4, first paragraph following the table and Section 6.1.3 2011 Semiannual Fall-Ground Water Quality Network, page 6-7, first paragraph after the table state "[a]ll monitoring wells were sampled within the screened interval." This statement is unsupported. According to Table 1 (Well Construction Details) the well screen information is currently unknown. Resolve this.

Response 18:

The text will be revised to state something along the lines that "Due to the lack of definitive screen intervals on the majority of wells, an assumption was made based on industry standards that the monitoring well screens are located at the bottom 5, 10, 15 or possibly 20 feet of the wells. Therefore, to try to obtain as representative of a sample as possible, TRINITY installed the sampling pumps to a depth within 5 feet of the bottom of the well." In addition, the data gaps will be clearly defined in the *Revised 2011 Annual Groundwater Monitoring Report.*

Comment 19:

Section 8.0, Conclusions/recommendations, page 8-4, third bullet states "[l]ow-flow sampling techniques were previously proposed for several wells within the Annual Ground Water Quality Network that are used for cattle stock water supply and are installed within subsurface vaults ...it is not possible to adjust the flow rate at the well head ...it was necessary to sample these wells first by evacuating a well volume and then collecting well stabilization parameters." Identify which wells were sampled in this manner in the revised Report.

Response 19:

Noted; this will be made very explicit in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 20:

The last sentence of Section 7.3, Well Condition Inspection/Maintenance, page 7-22, second paragraph, last sentence states "[a]dditional wells previously identified as open were also properly secured." Explain specifically which wells were found open in the revised Report

Response 20:

Noted; this will be made very explicit in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 21:

Section 8.0, Conclusions/recommendations, bottom of page 8-1, third bullet, MELR states "[s]everal wells are currently being utilized for the collection of water levels but have not been surveyed; these wells include MWL-11, MWQ-11, MWL-12, MWQ-12, and MWQ-13. The addition of these wells to ground water flow determinations would be beneficial." NMED concurs. The Permittee must prepare a work plan to survey the

locations and well casing elevations for these wells plus a minimum of five selected other wells (currently included in potentiometric surface mapping) to verify that the previous survey data is valid for the wells used for potentiometric surface mapping. The work plan must be submitted to NMED no later than December 3, 2012.

Response 21:

Based on conversations between Cannon AFB and NMED in late 2012, it was agreed that a Work Plan for the surveying of the wells was not necessary. All accessible wells were surveyed on December 4, 2012. The results and details of the survey will be submitted to Cannon under separate cover for submittal to NMED. Since we have the new survey data available prior to finalizing the *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY is proposing inclusion of the new top of casing elevations, well locations, etc. and re-creating all appropriate figures that utilize this information. This will be clearly explained in the text and the Survey Report submittal will be referenced.

Comment 22:

In Section 6.1.1, 2011 Semiannual Spring- Ground Water Quality Network, Page 6- 4, last paragraph and Section 6.1.2, 2011 Annual Spring- Ground Water Quality Network, page 6-7, last paragraph, MELR has apparently inserted the section of the approved work plan detailing field procedures to be performed rather than describing the field activities that were actually performed. For example: future tense is used rather than past tense on both pages 6-4 & 6-7 stating " ... the spigot closest to the pump will be opened ... [s]tabilization parameters will then be collected ... " Also when describing purging and sampling activities for MWQ-23 in both sections on the same pages the Permittee states "[i]ncorporating maximum expected well and tank parameters purge volume of approximately 100 gallons." According to the Ground Water Sampling Logs provided in Appendix A(Field Data) 84.00 gallons were purged from MWQ-23 during the May 2011 sampling event and 49.22 gallons were purged from MWQ-23 during the September 2011 sampling event. In the revised Report and all future report the Permittee must describe what actually took place during field activities.

Response 22:

Noted; the *Revised 2011 Annual Groundwater Monitoring Report* will provide a detailed accounting of what and how the field activities were completed with proper verb tense.

Comment 23:

In Section 7.1.4, Annual Ground Water Quality Network, page 7-20, third paragraph, perchlorate results for the annual (spring) sampling event are discussed; however, the results are not included on the associated table on page 7-19. In the revised Report include the perchlorate results in this table.

Response 23:

Noted; TRINITY will ensure that the perchlorate results are included in all appropriate tables in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 24:

In Section 6.2, Investigative Derived Waste, page 6-8, last paragraph states "TRINITY has submitted copies of the laboratory data to NMED ... " This is not correct; TRINITY submitted laboratory results to CAFB, who in turn submitted them to NMED via email correspondence on March 28, 2012. Correct this section in the revised Report

Response 24:

Noted; based on NMED's comment the text will be revised appropriately in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 25:

In Section 7.0, Monitoring Results, page 7-2, 3rd and 4th paragraphs, top of page 7-3 through 2nd paragraph, MELR discusses the rationale for collecting samples for both dissolved and total metals analyses. RCRA regulations require the determination of total metal concentrations. Comment 5 from the February 11, 2010 Final Work Plan NOD requires the Permittee to "analyze both total and dissolved RCRA metals [and include] total and dissolved (TAL) metals [in] the year 2010 and every sixth year thereafter (i.e., 2016, 2022 and so on)." This was reiterated in Comment 4 from the August 19, 2011 Second NOD. Because total and dissolved metals were collected as required in 2010 and collected again in 2011, the Permittee is not required to collect samples for dissolved metals until 2016. Analyses for total metals must continue to be collected each year.

Response 25:

We appreciate NMED pointing this out in the attempt to minimize the Air Forces overall monitoring costs. However, it is TRINITY's advice to Cannon AFB that scientifically it would be in their best interest to collect enough total and dissolved data to be able to develop a trend for each per well. For the minimal additional cost, this information can be useful in planning well redevelopment schedules, analyte reduction proposals, etc.

Comment 26:

Section 7.1.2.1, Holding Times, page 7-7, bullet number 1 (Annual Spring (SDG 2112050426)) states "MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, and MWQ-7 were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. Accordingly the sample results were estimated "J" or estimated non-detect "UJ." No explanation is given for the 24- hour holding time, which doesn't correlate with normal holding times for metals, or what methods/analyses were affected. In the revised Report provide an explanation which includes specific information (e.g., were samples preserved or unpreserved, were containers glass or plastic, what analyses were being performed) as well as a discussion on the implications the qualified results has on the conclusions of the Report. See Comment 3.

Response 26:

The analyte (hexavalent chromium) is provided in the first sentence of bullet one. On page 6-3 of the 2011 Annual Report there is an inserted table titled "Appropriate Sample Containers, Preservatives, and Holding Times." To comply with the previously approved sampling requirements it is necessary to analyze hexavalent chromium by colorimetric method EPA 7196A which doesn't typically allow for preservative; therefore, there is a 24-hour hold time. Due to the remoteness of the range, location of appropriately certified laboratories, etc., it is not possible to collect, pack, and ship samples from Melrose AFR and NOT exceed the 24-hour hold time. TRINITY has proposed an alternative methodology (EPA Method 218.6) in the past that allows for preservation and longer (28-days) hold times. For a more detailed discussion on hold time issues associated with hexavalent chromium please refer to: http://water.epa.gov/scitech/methods/cwa/questions-cr6.cfm.

In the *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY will include additional discussion on the implications that the missed holding times has on the quality and reliability of the data. Additionally, in the *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY will identify this as a data gap or issue that needs to be reconciled in the future. Based on our meeting with NMED on January 10, 2013, the annual monitoring plan is supposed to be updated each year and this is where it is appropriate to request changes to the monitoring program. TRINITY is not currently funded to recommend utilizing alternative methodology that allows for longer hold times.

Comment 27:

In Section 7.1.2.1, Holding Times, page 7-8, bullet number 2 (Annual Fall (SDG 2110928048)) MELR states "[r]ecovery of the surrogate analyte in samples MWQ-23, MA01- MW002, MW114MW002 and MW114MW003 exceeded lower acceptance criteria." This statement is also repeated in Section 7.1.2.3, Surrogate Compounds, page 7-12, third bullet (2011 Annual Fall (SDG 2110928048)). MELR does not state which analysis this statement references. Specify which methods and surrogate analyte(s) did not meet acceptance criteria and discuss the implications this has on the quality of data presented in the revised Report. See Comment 3.

Response 27:

Noted; based on NMED's comment the text will be revised appropriately in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 28:

Section 7.1.4, Annual Ground Water Quality Network, Page 7-19, third paragraph, MELR states "[a]luminum (total) has been detected in two of the 14 wells sampled during the 2011 Annual sampling event at concentrations above the screening criteria." According to the analytical results presented in Table 3 (Summary of Analytical Results (5/3/2011 - 5/18/2011)) 24 wells were sampled in the Spring (Annual) sampling event and ten wells were sampled in the Fall (Semi-Annual) sampling event; aluminum (total) was detected at concentrations above screening criteria in samples collected from three of the 24 wells during the spring (Annual) sampling event and

in two of the ten wells during the fall (Semi-Annual) sampling event. Correct this error in the revised report. See Comment 3.

Response 28:

Noted; however, Comment 32 requests that these tables be removed. Table 3 and Table 4 will be removed from the *Revised 2011 Annual Groundwater Monitoring Report.*

Comment 29:

According to Section 7.1.2, Suitability of the Data, pages 7-7 through top of page 7-14, laboratory data was qualified for various reasons (see Comments 27 & 28, above) Identification of these data quality qualifications does not appear on analytical results tables in the report. In the text of the revised Report include a description of sample collection and analytical methods. MELR must also revise the analytical results table(s) to include footnotes which indicate which data are qualified and the type of data qualification. Include the modified tables in the revised Report.

Response 29:

Noted; the tables will be revised in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 30:

Section 7.1.4, Annual Ground Water Quality Network, bottom of page 7-19 and top of page 7-20, MELR states "[t]he only exceedance for antimony is in MWQ-20, which as previously discussed has been excluded from this discussion based on its installation in the Chinle formation." This is incorrect, antimony also was detected at concentrations above screening criteria in the ample collected from MA01MW002 during the annual sampling event. Correct this error in the revised report.

Response 30:

Noted; based on NMED's comment the text will be revised appropriately in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 31:

In Section 8.0, Conclusions/recommendations, page 8-4, first bullet the Permittee states "[d]uring the Fall 2011 sampling event thallium was analyzed using a MDL slightly higher than the screening guideline. Future testing will attempt to utilize a lower MDL." MELR must utilize MDLs that are lower than the associated screening levels for all analytes in all future monitoring events.

Response 31:

Noted; this will be clarified and pointed out as a data gap or deficiency that needs to be rectified in future sampling events

---

Comment 32:

Table 3 (Summary of Analytical results (5/3/2011-5/18/2011)) and Table 4 (Summary of Analytical results (9/27/2011-10/3/2011)) are redundant, the data is already concisely presented in Table 2 (Summary of Analytical results-2011). Remove Tables 3 and 4 from the revised Report.

Response 32:

Noted; Tables 3 and 4 will be removed from the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 33:

On Table 2 (Summary of Analytical Results- 2011) the columns listing sampling dates for M114MW002 are reversed. Correct this error in the revised Report.

Response 33:

Noted; the table will be revised in the *Revised 2011 Annual Ground Water Monitoring Report*.

Comment 34:

The table (Summary of Water Quality Test Events) on page 5-3 does not have an explanation for the symbols "x" and"---", which are used in the table. Include a definition for these symbols in the footnotes for this table in the revised Report.

Response 34:

Noted; definition of these symbols will be included in the footnotes of the Revised *2011 Annual Groundwater Monitoring Report.*

Comment 35:

MWQ-23 is not included in the table (Summary of Water Quality Test Events) on page 5-3. MWQ-23 was gauged and sampled during the annual and semiannual 2011 sampling events; therefore, MWQ-23 must be added to this table in the revised Report

Response 35:

MWQ-23 is included in the table (Summary of Water Quality Test Events) on page 5-3. However, in the *Revised 2011 Annual Groundwater Monitoring Repor*, it will be denoted on this table and within the text that this well was sampled to determine its value as a possible background well, however based on review of multiple sampling events it does not appear to be a viable location for background groundwater quality data collection. It will be clearly identified, as previously discussed in responses above, that this is a data gap and the originally proposed background well near MWQ-10 will be pursued.

Comment 36:

On Figure 10 (Generalized Cross Sections), the key identifies the Blackwater Draw Formation with dashed lines; however, the labels on the cross sections identify the Blackwater Draw Formation with a stippled pattern. Correct this discrepancy in the revised Report.

Response 36:

Noted; the figure will be revised in the *Revised 2011 Annual Ground Water Monitoring Report*.

If you have any questions or need further assistance, please do not hesitate to contact me at 850-613-6800.

Respectfully,

TRINITY Analysis & Development Corp.

Richard L. Burdine
Senior Vice President

TITLE PAGE

DECEMBER 2011
ANNUAL ~~GROUND WATER~~GROUNDWATER
MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Cannon Air Force Base
Air Force Special Operations Command (AFSOC)
27th SOCES/CEANR
Cannon Air Force Base, NM 88103-5003

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Under Contract To:
United States Army Corps of Engineers (USACE)
Omaha District
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Contract Number:
W9128F-10-D-0091, Task Order 0006

~~January~~ February ~~2012~~2013

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CERTIFICATION PAGE

DECEMBER 2011
ANNUAL ~~GROUND WATER~~GROUNDWATER
MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Air Force Special Operations Command
And
27th Special Operations Wing

Prepared By:
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Omaha District

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I hereby submit that this Annual Ground ~~W~~water Monitoring Report, December 2011, for the Melrose Air Force Range was prepared by me.

Jonathan M. Kramer
Geologist
Trinity Analysis & Development Corp.

1-~~11~~15-201~~2~~3
Date

I hereby submit the Annual Ground ~~W~~water Monitoring Report, December 2011, for the Melrose Air Force Range was prepared under my supervision and review. To the best of my knowledge, all of the work performed for this report is in accordance with applicable State and federal regulations and accepted professional practices.

Richard L. Burdine, P.G.
Senior Vice President
Trinity Analysis & Development Corp.

1-~~11~~15-201~~2~~3
Date

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LIST OF ABBREVIATIONS AND ACRONYMS

°C	Celsius
°F	Fahrenheit
Accutest	Accutest Laboratories, Tampa, Florida
AFB	Air Force Base
AFR	Air Force Range
AFSOC	Air Force Special Operations Command
amsl	above mean sea level
AOC	Area of Concern
bls	below land surface
CCB	continuing calibration blank
CEA	Asset Management Flight
CEC	cation exchange capacity
COCs	Chain-of-custodies
DO	dissolved oxygen
DoD	Department of Defense
DQOs	data quality objectives
ECO	Eco-logical Environmental Services, Inc.
eDATApro	Environmental Data Professional, LLC
ELAP	Environmental Laboratory Accreditation Program
ERP	Environmental Restoration Program
ft/ft	feet per foot
ft/yr	feet per year
GCAL	Gulf Coast Analytical Laboratories, Inc.
gpm	gallon per minute
GWQB	Groundwater Quality Bureau
HSWA	Hazardous and Solid Waste Amendments
ICB	Initial calibration blank
IDW	Investigation-derived waste
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MB	Method Blank.
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ML	fine sandy silt
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NELAC	National Environmental Laboratory Accreditation Conference
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department

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ORP	oxidation reduction potential
psi	pounds per square inch
PVC	polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
RPD	Relative Percent Difference
RSL	Regional Screening Level
SC	clayey sand
SC-CL	fine sandy clay
SDG	Sample delivery group
SM	silty fine sand
SOW	Special Operations Wing
SR	State Road
SSL	Soil screening level
SVOC	semivolatile organic compounds
SWMUs	Solid Waste Management Units
TD	Total depth
TDS	Total Dissolved Solids
TRINITY	Trinity Analysis & Development Corp.
µg/L	micrograms per liter
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UXO	unexploded ordnance
VOC	volatile organic compounds
WQCC	Water Quality Control Commission

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1.0 INTRODUCTION

This Annual Ground ~~W~~water Monitoring Report for the Melrose Air Force Range (AFR) has been prepared by Trinity Analysis & Development Corp. (TRINITY) on behalf of the Cannon Air Force Base (AFB) 27th Special Operations Wing (SOW) and Air Force Special Operations Command (AFSOC). TRINITY performed this work under contract to the US Army Corps of Engineers (USACE), Omaha District, Contract W9128F-10-D-0091, Task Order 006. The document was prepared for submission to the New Mexico Environment Department (NMED). The *Draft December 2011 Annual Groundwater Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico* was submitted to Cannon AFB on January 11, 2011. NMED provided a Notice of Disapproval (NOD) of the report dated September 26, 2012. Based on comments, TRINITY requested a meeting with NMED and Cannon to discuss the NOD with the intent to better understand NMED's position, prior to generating another version of the document. Personnel from Cannon Air Force Base (Mr. Matt Higginbotham) and TRINITY (Mr. Jonathan Kramer, and Mr. Richard Burdine, PG) met with personnel from NMED (Mr. Dave Cobrain, Ms. Leona Tsinnajinnie, Mr. Dan Comeau, and Ms. Neelam Dhawan) on January 10, 2013 at their office in Santa Fe, New Mexico. Based on comments and discussions occurring during the meeting this report has been revised. As requested by NMED, this report is written and organized in general accordance with the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003* (New Mexico Environment Department, 2003)

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Site History

In ~~1975~~1986, the Department of Defense (DoD) established the Environmental Restoration Program (ERP) to provide guidance and funding for the investigation and remediation of hazardous waste sites caused by historical disposal activities at military installations that may have contaminated soil, ~~ground water~~groundwater, and/or surface water. The Asset Management Flight (CEA) staff at the Cannon AFB 27th SOW is administratively responsible for oversight of ERP sites at Melrose AFR.

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~~Melrose AFR was issued a Resource Conservation and Recovery Act (RCRA) permit effective December 30, 1994 and a Hazardous and Solid Waste Amendments (HSWA) Permit effective December 15, 1994. It is TRINITY's understanding that both permits were allowed to expire on December 30, 2004 and December 15, 2004, respectively.~~

In accordance with ~~a the~~~~Resource Conservation and Recovery Act (~~RCRA~~)~~ permit issued to ~~Cannon AFB~~Issued to Melrose AFR, ~~effective on~~ ~~December 30, 1994~~ an investigation of potential impacts to soil and ~~ground water~~groundwater that may have resulted from seven Solid Waste Management Units (SWMUs) was conducted. In accordance with the RCRA Permit a *Phase I RCRA Facility Investigation for Melrose Air Force Range*, *Cannon Air Force Base, Clovis, New Mexico* (Foster Wheeler, 1996) and a *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003) were completed and the reports submitted to NMED. NMED reviewed the Phase I RCRA Facility Investigation (RFI) and the RFI Addendum and provided a response dated February 1, 2006 which requested additional field investigation activities at Melrose AFR.

On May 9, 2007 the Department of the Air Force requested a deferral of a RFI Work Plan for the additional field investigation requested by NMED for Melrose AFR. The deferral request was based on the fact that the entire facility is an "*active bombing or test range*." On June 19, 2007 NMED approved deferment of a revised RFI Wwork Pplan. In a Notice of DisapprovalNOD dated February 11, 2010 for the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range* (Tidewater, Inc., 2009) (Tidewater, 2009), dated February 11, 2010 NMED stated that NMED had previously approved deferment for submittal of the revised RFI Work Plan with the stipulation that the purpose and scope of the work plan would be modified to indicate that continued ground watergroundwater monitoring and reporting would continue and is "*… an interim measure, until the SWMUs are fully investigated…..*". Based on NMED comments (February 11, 2010) on the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater Inc., Inc., 2009), a *Final Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater Inc., Inc., 2010) was produced.

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Monitoring Network

Based on NMED comments (February 11, 2010) on the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range* (TidewaterTidewater Inc.Tidewater Inc. Inc., 2009), two separate monitoring well networks are designated and sampled: the Semiannual SWMU Ground Wwater Quality Network which currently consists of ten 10 wells, and the Annual Ground Wwater Quality Network which currently consists of 14 wells.

In the *Final Report, Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New*

Mexico (TidewaterTidewater Inc., 2009) the consultant proposed a new background monitoring well upgradient of the SWMUs, adjacent to MWQ-8, which was dry. NMED reviewed the report and responded on October 27, 2009 approving the installation of a new background monitoring well and suggested that the well be installed adjacent to MWQ-10 (NMED, 2009). However, MWQ-10 is located on a portion of Melrose AFR (the Mesa) where ground water is not mixing with the underlying Chinle Formation. Based on ground water geochemistry data and the ground water flow direction, ground water collected from MWQ-8 is upgradient of the SWMUs and the Impact Area and is located on a portion of Melrose AFR that would provide a more representative ground water quality sample for the Impact Area.

TRINITY submitted an updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011)(Trinity Analysis & Development Corp, 2011) in which a recommendation was made to consider utilizing existing cattle stock supply well (MWQ-23) as a potential background well. Implementation of this well as a background data source would preclude the additional expenditure of installing a new monitoring well, and based on site-specific geology and site configuration MWQ-23, which is located approximately 3,100 feet

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~~west of MWQ-8, appears to be able to provide adequate background data for the local flow system in the Impact Area. MWQ-23 was sampled twice during this reporting period. A more detailed discussion of the site specific geology and hydrogeology of Melrose AFR is provided in Section 4.0 below.~~

~~Monitoring wells associated with t~~The Semiannual SWMU Groundw~~-W~~ater Quality Network ~~are sampled on a semiannual basis and include~~consists of:

- One background ~~ground water~~groundwater monitoring well (currently MWQ-23);
- Four ~~ground water~~groundwater monitoring wells at SWMU 114;
- Four ~~ground water~~groundwater monitoring wells at SWMU 130;
- One ~~ground water~~groundwater monitoring well at SWMU 131.

With regards to the background well, A background monitoring well had initially been requested on October 27, 2009 when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009). At the time, MWQ-10 was regarded as the background monitoring well. In that response NMED stated:

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> *"NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
>
> *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…"*

The subsequent contractor, Tidewater Inc., Inc. was not under contract to install a background monitoring well as discussed in the *Response to Comments contained in the February 11, 2010 Notice of Disapproval to the Draft Work Plan, Groundwater Monitoring, Melrose Air Force Range, New Mexico, October 2009* (Tidewater Inc. Inc., 2009).

-TRINITY ~~had~~ proposed utilization of ~~to NMED~~ and ~~had~~ subsequently sampled well MWQ-23 to determine if this location was a viable option as a background well. ~~for the collection of~~

~~groundwater samples.~~ This location was proposed and tested in an attempt to save the USAF and the taxpayer ~~approximately $50,000 in new well installation~~the substantial cost associated with installation of a new well. However, based on review of the collected groundwater quality information from MWQ-23, it does not appear to represent an ideal background groundwater quality sampling location. In addition, no well construction details are known about this well. TRINITY will propose the installation of a new background monitoring well under separate cover in a Well Installation Work Plan.

~~A background monitoring well had initially been requested on October 27, 2009 when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009* (URS, 2009). In that response NMED stated:~~

> ~~*"NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ-10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*~~
>
> ~~*The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…"*~~

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~~The subsequent contractor, Tidewater~~Tidewater Inc.~~, Inc. was not under contract to install a background monitoring well as discussed in the *Response to Comments contained in the February 11, 2010 Notice of Disapproval to the Draft Work Plan, Groundwater Monitoring, Melrose Air Force Range, New Mexico, October 2009* (Tidewater~~Tidewater Inc.~~, 2009). TRINITY is currently under contract to install this background monitoring well.~~

~~Wells associated with t~~The Annual Ground~~ W~~water Quality Network ~~are sampled on an annual basis and~~ includes14~~Fourteen~~ wells, consisting of monitoring wells and active/inactive supply wells.~~:~~ These wells are discussed in further detail later in this section of the report.

- ~~Fourteen wells, consisting of monitoring wells and active/inactive supply wells.~~

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An additional 20 wells are included ~~in the current sampling plan~~ as groundwater elevation

measuring points only. A more detailed discussion of the site sampling plan for both the Semiannual and Annual Ground-Wwater Quality Network is provided in **Section**s 6.1.1 and 6.1.2, respectively **1.3**.

The wWater quality sampling and reporting is being performed to monitor for the presence of potential contaminants, gauge the effectiveness of the site's monitoring system, provide the foundation for correction or improvement to the monitoring plan as necessary, and to document the site's influence on the area's ground watergroundwater quality, if any.

All field activities presented in this document were completed in general accordance with the data quality objectives (DQOs) presented in the approved work plan (TidewaterTidewater Inc.Tidewater Inc. Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) (Trinity Analysis & Development Corp., 2011).

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~~2.0 ANNUAL REPORT CONTENTS~~

~~Annual ground water monitoring reports for SWMUs at Melrose AFR are required by 20.9.9.13 New Mexico Administrative Code (NMAC). In accordance with NMED Solid Waste regulations, annual ground water monitoring reports should include:~~

- ~~Site and background description;~~
- ~~A description of the hydrogeologic setting;~~
- ~~A description of the monitoring well network including a well construction summary table and site map(s) of well locations;~~
- ~~Summary of ground water elevations including flow maps of the current sampling event and at least two previous sampling events;~~
- ~~An interpretation of the ground water gradient and flow velocity;~~
- ~~Description of ground water sampling activities, including summary tables and trend analysis of water quality data;~~
- ~~An evaluation of the analytical results;~~
- ~~A description of the suitability of the data (i.e. holding times, blanks, duplicates, etc.);~~
- ~~Any necessary corrective actions, conclusions and recommendations.~~

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~~This report is organized as following:~~

- ~~Section 1: Introduction;~~
- ~~Section 2: List of Annual Report contents;~~
- ~~Section 3: Site description and background including a brief summary of the SWMUs at Melrose AFR;~~
- ~~Section 4: Summarizes the geology and hydrogeology of Melrose AFR and vicinity;~~
- ~~Section 5: Describes the requirements of the monitoring plan as it relates to semiannual and annual sampling conducted at Melrose AFR;~~
- ~~Section 6: Provides a description of field activities conducted during the most recent year of sampling (2011);~~

- ~~Section 7: Evaluates the analytical data, focusing on data from the most recent year of sampling (2011). Compares data to background/ambient conditions. Evaluates possible exceedances of regulatory standards and assesses the quality of the data;~~
- ~~Section 8: Provides conclusions and recommendations.~~

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~~2.1~~1.1 SITE DESCRIPTION AND BACKGROUND

~~2.1.1~~1.1.1 Location/Access

The Melrose AFR is a bombing and air-to-ground gunnery range under management of Cannon AFB within AFSOC. The Melrose AFR is situated approximately eight miles southwest of the village of Melrose, and located predominately in Roosevelt County with a small parcel in Curry County, New Mexico (**Figures 1 and 2**). Access to the range is achieved by traveling south from Melrose on New Mexico State Road (SR) 267 for approximately 9.3 miles, then west on Sundale Valley Road for approximately seven miles to the security gate.

During World War II, the area was used by the ~~United States (~~US~~)~~ Army Air Corps (predecessor to the US Air Force) for training. It has been continuously used by the US Air Force since World War II. In 1952, the range was expanded when the Air Force leased 7,771 acres of grassland for use as a bombing and air-to-ground gunnery range by the Tactical Air Command. Since 1952, the range has been expanded several times including land purchases and leases and currently comprises 87,925 acres. Current acreage includes Cannon AFB owned, public domain, and restricted easement land (Foster Wheeler, 2003).

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The Impact Area of the Range is located northeast of the physiographically prominent Mesa and consists of grasslands with a grid of access roads and bombing targets. The Impact Area is delineated by a historical boundary that previously delineated the extent of the entire Range (**Figure 2**). In 1990-91, the boundary of the Range was expanded through the acquisition of agricultural and range land parcels on all sides. These parcels (leased lands) are currently part of Range property but are leased back to the prior owners for continued use as agricultural and range land. Leaseholders use the unconfined aquifer for irrigation and livestock watering.

Live high-explosives-filled ordnance was used on the range prior to 1969. Since then, practice bombs and inert full-scale bombs have been used at the range. Practice bombs and inert bombs are known to contain only small explosive or pyrotechnic spotting charges. Additionally, live gun ammunition has been used continuously on the range for target practice.

Over the years, portions of the Melrose AFR have been used to dispose of a variety of military

and industrial waste from Melrose AFR and Cannon AFB. Wastes have included: unexploded ordnance (UXO), exploded ordnance, scrap metal, paints, solvents, pesticides, herbicides, putrescible waste, etc. (Foster Wheeler, 1996; Foster Wheeler, 2003). ~~Currently, the~~ Melrose AFR ~~permit includes~~currently has seven SWMUs located within its boundary. Three SWMUs have permanent monitoring wells in place, two SWMUs are located within the Impact Area and as such, do not have permanent wells in place, and the wells associated with the remaining two SWMUs have been abandoned because they were dry (**Figure 2** and **3**). The SWMUs are described as follows:

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SWMU 114 – Expended Ordnance and Industrial Waste Burial Site (Motor Pool Trenches)

SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)

SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)

SWMU 130 – World War II Cantonment Disposal Site (formerly Area of Concern (AOC) 1)

SWMU 131 – Domestic Waste Burial Site (East of Fire Station; formerly AOC 2)

SWMU 132 – Disposal-/-Burn Site (North Helicopter Pad; formerly AOC 3)

SWMU 133 – Northwest Munitions Disposal Site (Northwest Corner of Impact Area; formerly AOC 4)

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~~2.1.2~~1.1.2 SWMU Descriptions & History

~~2.1.2.1~~1.1.2.1 SWMU 114 – Expended Ordnance and Industrial Waste Burial Site

SWMU 114 is located in the southeast quarter of the southwest quarter of Section 15 and the northeast quarter of the northwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). The site and surrounding area are flat with sparse desert scrub vegetation consisting of prairie grass and cactus.

According to historical RFI reports,t~~T~~he military used a series of eight unlined burial trenches at SWMU 114 to dispose of a variety of military and industrial waste from Melrose AFR and Cannon AFB. Trenches were approximately 20 to 40 feet in width, 100 to 200 feet in length and up to 40 feet in depth (Foster Wheeler, 1996; Foster Wheeler, 2003). One trench approximately

15 feet deep and 400 feet long is currently open but has not been used.

Exact dates and types of waste disposed at SWMU 114 are unknown. It is known, however, that between 1952 and 1962 drummed liquids were poured into the trenches and burned. Full drums of liquid, including possible unusable fuels, paints, sludge, and solvents may have also been placed in the trenches. For an unknown period of time, the military also disposed of an estimated 12,000 to 15,000 pounds per month of scrap metal from practice bombs and munitions in the trenches at SWMU 114 (Foster Wheeler, 1996; Foster Wheeler, 2003). According to the 1996 *Phase I RCRA Facility Investigation for Melrose Air Force Range, Cannon Air Force Base, Clovis, New Mexico* (Foster Wheeler, 1996) and the 2003 *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003) the trenches at SWMU 114 were cleared of ordnance and have been backfilled and closed. ~~Ground water~~Groundwater ~~at this location is present approximately 150 feet below land surface (bls).~~

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According to historical RFI reports, ~~F~~four monitoring wells were installed and sampled as part of the Phase I RFI. Groundwater at this location is present approximately 150 feet below land surface (bls).No organic compounds were detected above ~~ground water~~groundwater standards during the Phase I RFI. Elevated metals concentrations were attributed to high turbidity and natural conditions. Elevated anion concentrations were attributed to natural conditions. Migration of metals from the disposal site to ~~ground water~~groundwater was determined to be unlikely due to the high cation exchange capacity (CEC) of the surface and near surface soil and the alkaline nature of the formation. It ~~has been~~was determined that ~~ground water~~groundwater at SWMU 114 has not been impacted by disposal activities at the site (Foster Wheeler 1996; Foster Wheeler 2003).

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~~2.1.2.2~~1.1.2.2 SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)

SWMU 115 is located in the northeast quarter of the northeast quarter of Section 33, Township 1 North, Range 30 East in Roosevelt County, New Mexico (**Figure 3**). The site lies within a small arroyo located in the south-central portion of Melrose AFR. According to historical RFI reports, SWMU 115 was used for the disposal and burial of UXO in 1989. UXO and other exploded

ordnance were reportedly collected from the surrounding areas, pushed into the arroyo, and covered with a thin layer of soil. Storm water flows intermittently down the arroyo during heavy rains.

The ground surface at the site is relatively free of debris. The disposal area was 600 feet long, 15 to 20 feet wide, and 15 to 20 feet deep. The contents of SWMU 115 are believed to consist entirely of UXO and other exploded ordnance, including 750-pound and 2,000-pound bombs covered with a thin layer of soil. ~~Ground water~~Groundwater ~~is~~was reported present at approximately 25 to 30 feet below land surface. During the Phase I RFI, ~~ground water~~groundwater samples were collected utilizing direct-push technologies. No organics or explosives related compounds were detected in ~~ground water~~groundwater samples submitted for analysis. Elevated metals concentrations were attributed to elevated turbidity in the samples. It ~~has been~~was determined that ~~ground water~~groundwater at SWMU 115 has not been impacted by disposal activities at the site (Foster Wheeler 1996; Foster Wheeler 2003).

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~~2.1.2.3~~1.1.2.3 SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)

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SWMU 117 is located in the northeast quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). This site is located southeast of the main control building at the Melrose AFR. The area is within a slight depression that receives storm water runoff from the surrounding area.

According to the historical RFI reports, ~~T~~this SWMU was formerly used to dispose of domestic waste from the control building, including such items as food waste and common household items. Other items possibly disposed in this area could include used oil and grease, solvents, batteries, pesticides, or herbicides (Foster Wheeler, 1996; Foster Wheeler, 2003). Disposal at the site appears to have begun circa 1973 as evident in aerial photographs. The area used for disposal at SWMU 117 was approximately 300 feet by 300 feet or approximately two acres. It is a closed site and currently covered by native grasses.

~~Ground water~~Groundwater was reportedly not encountered at a maximum depth of 182 feet during the Phase I RFI. The four borings were backfilled to the top of a potential confining layer

(caliche) at approximately 41 feet bls with wells installed to intercept potential seasonal or ~~transient~~ perched ~~ground water~~groundwater. These four wells have been historically dry and have ~~therefore~~ been abandoned at NMED's request. Based on the lack of ~~ground water~~groundwater and the lack of significant contamination in soil samples it was concluded that contamination of ~~ground water~~groundwater at SWMU 117 was unlikely (Foster Wheeler 1996; Foster Wheeler 2003).

~~2.1.2.4~~1.1.2.4 SWMU 130 – World War II Cantonment Disposal Site

SWMU 130 is located in the northeast quarter of Section 17, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 130 was formerly referred to as AOC 1. According to historical RFI reports, ~~T~~the military used SWMU 130 as a sanitary landfill during World War II for a cantonment area (temporary housing area for troops). No documentation exists for specific wastes disposed at the site; however, it is possible that the waste stream included all items from domestic wastes to motor pool waste, UXO, munitions, batteries, oil and fuels, etc. The exact location of the disposal site is unknown; however approximately 50 acres were investigated during the Phase I RFI. ~~Ground water~~Groundwater ~~is~~ was reportedly present approximately 140 to 145 feet bls at SWMU 130. Four monitoring wells were installed and sampled as part of the Phase I RFI. No organic compounds were detected and only one metal (thallium) was detected above applicable ~~ground water~~groundwater standards. The elevated thallium concentration was attributed to natural conditions (Foster Wheeler 1996; Foster Wheeler 2003).

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~~2.1.2.5~~1.1.2.5 SWMU 131 – Domestic Waste Burial Site (East of Fire Station)

SWMU 131 is located in the northwest quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 131 was formerly referred to as AOC 2. This site is east of the Melrose AFR Fire Station and consists of approximately 0.5 acres. According to historical RFI reports, SWMU 131 was used for disposal and/or burning of wastes; however, the type and volume of wastes is unknown (Foster Wheeler 2003). The suspected waste stream possibly included spent fuels, motor oil, batteries, paints, pesticides, and metals in addition to domestic waste. Waste first appears to have been disposed of at SWMU 131 circa 1966.

Two monitoring wells, a shallow and deep were installed in the investigative borings to depths of 50 and 185 feet bls, respectively. The shallow well was installed above a confining layer (caliche) to intercept seasonal or ~~transient~~ perched~~ground water~~groundwater. The shallow well has been historically dry and has~~ therefore~~ been abandoned at NMED's request. ~~Ground water~~Groundwater ~~i~~was reportedly present in the deep well at approximately 105 feet bls.

The deep groundwater well was sampled as part of the RFI. No organic analytes were detected in the ~~ground water~~groundwater during the Phase I RFI. Selenium and thallium were reported at concentrations above applicable ~~ground water~~groundwater standards; however, due to a lack of selenium or thallium in overlying soil samples it was determined that ~~ground water~~groundwater had not been impacted by SWMU 131 (Foster Wheeler 1996; Foster Wheeler 2003).

~~2.1.2.6~~1.1.2.6 SWMU 132 – Disposal / Burn Site (North Helicopter Pad)

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SWMU 132 is located in the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (**Figure 3**). SWMU 132 was formerly referred to as AOC 3. This site is less than 0.5 acres located north of the former helicopter pad at the Melrose AFR operations area. SWMU 132 was reportedly used for burning and/or disposal of unknown wastes types and quantities. Possible wastes included domestic waste, motor oil, metals, and residue from burning. Waste first appears to have been disposed of at SWMU 132 circa 1973.

During the Phase I RFI no ~~ground water~~groundwater was encountered during drilling to a total depth (TD) of 182 feet bls. The boring was backfilled to the top of a potential confining layer (caliche) at approximately 50 feet bls to intercept seasonal or transient ~~ground water~~groundwater. Due to land-use (helicopter pad) the well was installed flush mount. The well was dry during the Phase I RFI (1996) and during the RFI Addendum (2003) and therefore could not be sampled. Based on the lack of ~~ground water~~groundwater this well was abandoned at NMED's request. Due to the lack of ~~ground water~~groundwater it was determined to not have been impacted by the presence of SWMU 132 (Foster Wheeler 1996; Foster Wheeler 2003).

~~2.1.2.7~~1.1.2.7 SWMU 133 – ~~Northwest~~ NW Munitions Disposal Site (NW Corner of Impact Area)

SWMU 133 is located in the northwestern corner of the impact area. SWMU 133 was formerly referred to as AOC 4. This site is located in the east-central part of Section 17 with some overlap into Section 16, Township 1 North, Range 30 East in Roosevelt County, New Mexico (**Figure 3**). The site is flat with native scrub vegetation and areas free of vegetation. According to historical RFI reports, SWMU 133 was used from 1952 to 1960 for disposal of exploded ordnance and UXO.

~~Ground water~~Groundwater was reportedly present at approximately 112 to 127 feet bls. During the Phase I RFI, ~~ground water~~groundwater samples were collected from three of four borings utilizing direct-push technologies. Groundw~~W~~ater was not encountered in one of the borings. No organics were detected in ~~ground water~~groundwater. Concentrations of several metals exceeded applicable ~~ground water~~groundwater standards. A pattern of increased concentrations of five of the metals from west to east across the site might suggest impacts from SWMU 133 or from naturally occurring lateral changes in bedrock (Foster Wheeler 1996; Foster Wheeler 2003). Permanent monitoring wells were not installed due to the location of SWMU 133 in an overflight approach route along the northern portion of the active Impact Area. In a letter to Cannon AFB dated June 19, 2007 NMED stated, that "…*NMED will prepare a "corrective action-only*" permit to be implemented once the range is closed, transferring, or transferred." (NMED, 2007). When the Range is deactivated additional assessment will likely be required.

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1.1.3 Well Installation History

As previously discussed, the current monitoring well network consists of a Semiannual SWMU Groundwater Quality Network ~~consisting of (ten~~10 wells), an Annual Groundwater Quality Network ~~consisting of (~~14 wells), and 20 additional wells utilized solely for the collection of water levels. The following discussion provides a limited historical discussion of well installation at Melrose AFR, particularly as it relates to the monitoring network. Although there is limited or a lack of installation information,TRINITY has attempted to discuss ~~the wells~~network well installations in chronological order as they were installed~~; however, limited to no information is available for many of the wells~~ at Melrose AFR. Available, documented, or

measured well construction details have been compiled and are summarized in **Table 1**, Summary of Well Construction Details, and **Table 2**, Summary of Groundwater Levels.

~~Where d~~Data gaps/deficiencies that have been identified~~ they~~ are discussed below and clearly identified in associated tables. Where applicable, additional discussion is provided throughout the report specifying how the data gaps/deficiencies have affected interpretations of the data made by TRINITY and others.

Agricultural Wells

The Homestead Act of 1862 consisted of individual land grants~~ totaling~~of 160 acres each. Roosevelt County was primarily homesteaded from circa 1900 to 1915, although settlement continued beyond 1915 and portions of Melrose AFR continue to be farmed (center pivots) and grazed (cattle) (Burroughs, 1975). During the peak of settlement activities (1905 to 1915) the area currently encompassing Melrose AFR contained four towns or villages which included Fertile Valley, Granite Valley, Benson, and Mesa, with a post office being located in Granite Valley (Burroughs, 1975). The only remnants of early settlement of the area are a few homesteads and numerous wells of which no firsthand information or records are available. Several of these wells are currently ~~part of~~included in the monitoring network as described below

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Well ID	Network Designation	Historical Use
MWQ-4	Annual GW Quality Network	Windmill-driven well
MWL-6	Annual GW Quality Network	Windmill-driven well
MWQ-8	Water-level only	Windmill-driven well
MWQ-9	Water-level only	Hand-dug well
MWQ-12	Water-level only	Windmill-driven well
MWQ-13	Water-level only	Windmill-driven well
MWL-4	Water-level only	Windmill-driven well
MWL-7	Water-level only	Windmill-driven well
MWL-8	Water-level only	Windmill-driven well
MWL-9	Water-level only	Windmill-driven well
MWL-10	Water-level only	Windmill-driven well
MWL-11	Water-level only	Windmill-driven well
MWL-12	Water-level only	Windmill-driven well

~~. They include Annual Groundwater Quality Network wells MWQ-4 (old windmill now operating with a submersible pump and powered by solar panels), and MWL-6 (old windmill) and water level only wells MWQ-8 (old windmill), MWQ-9 (hand dug well), MWQ-12, MWQ-13, MWL-4, MWL-7, MWL-8, MWL-9, MWL-10, MWL-11, and MWL-12 (all old windmills).~~ Due to the age of these wells very limited ~~well~~ construction details are ~~known~~available. In several instances ~~the~~ total depth has been measured~~;~~ but ~~however~~ construction details, lithologic data, and ~~the~~ screened intervals are unknown (**Table 1**).

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Several of the wells included in the network consist of more recently installed agricultural supply wells. These wells are ~~primarily~~ utilized for supplying water for cattle and for crop irrigation (center pivots) which occurs primarily in the ~~livestock pans; however,~~ northwest portions of Melrose AFR ~~are still being irrigated (center pivots)~~. As these wells contain pumps, integral plumbing, and in most cases live electrical wires, no well construction details have been attained or are known. The following table summarizes current network designations and uses of the more modern agricultural wells in the network.

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Well ID	Network Designation	Historical Use
MWQ-3	Annual GW Quality Network	Agricultural Supply Well
MWQ-5	Annual GW Quality Network	Agricultural Supply Well
MWQ-6	Annual GW Quality Network	Agricultural Supply Well
MWQ-7	Annual GW Quality Network	Agricultural Supply Well
MWQ-10	Annual GW Quality Network	Agricultural Supply Well
MWQ-23	Semiannual GW Quality Network	Agricultural Supply Well
MWL-1	Water-level only	Agricultural Supply Well
MWL-2	Water-level only	Agricultural Supply Well
MWL-3	Water-level only	Agricultural Supply Well
MWL-5	Water-level only	Unknown

~~They include Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10. As previously discussed, MWQ-23 is also an operating supply well; this well was tested as a potential background well for the Semiannual SWMU Groundwater Quality Network (SWMUs). Based on water quality and discussions with NMED sampling of MWQ-23 has been discontinued. As these wells contain pumps, integral plumbing, and in most cases live electrical wires no well construction details are known. Water level only well MWL-1 is also~~

~~similarly constructed. According to Melrose AFR personnel Water Level only wells MWL-2 and MWL-3 are also similarly constructed supply wells. However, d~~Due to their locations near the Jockey L~~l~~ive F~~f~~ire R~~r~~ange, access issues, and test missions, TRINITY has only inspected and collected water levels once from MWL-2 once and has never inspected or collected water levels from MWL-3. ~~Water level only well MWL-5 is a shallow six-inch PVC well; the purpose of this well is unknown.~~

Groundwater Monitoring Wells

The remaining 18 wells that are part of the monitoring network consist of ~~"properly constructed" monitoring~~ known to have been constructed for the purposes of environmental groundwater monitoring (**Table 1**). These are all indicated ~~wells and~~to have~~ all~~ been installed since 1995. Investigative activities have been ongoing since 1994 when a Phase I RFI was conducted~~. The Phase I RFI was conducted~~ in accordance with the requirements of the RCRA permit for Melrose A~~ir Force Range~~FR. Investigations were conducted for SWMUs 114, 115, and 117 as well as four potential AOCs identified during a site visit in September 1994. The results of the RFI are discussed in the ~~*Phase I RCRA Facility Investigation for Melrose Air Force Range, Cannon Air Force Base, Clovis, New Mexico*~~ (Foster Wheeler, 1996) and the 2003 *RCRA Facility Investigation Report Addendum for Melrose Bombing Range, Cannon Air Force Base, New Mexico* (Foster Wheeler, 2003. The permit covered open burning/open detonation at the UXO Open Burn Treatment Pit (SWMU 118); however, SWMU 118 was not a subject of the investigation.

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~~No. NM5572124456-1, issued to CAFB by NMED and effective December 30, 1994. The permit covered open burning/open detonation at the UXO Open Burn Treatment Pit (SWMU 118); however, SWMU 118 was not a subject of this investigation. Subpart X of the permit specified that SWMUs 114, 115, and 117 required an RFI. In addition, the Scope of Services specified that the four potential AOCs identified during a site visit in September 1994 were to be included in the RFI. The results of the RFI are discussed in the *Phase I RCRA Facility Investigation for Melrose Air Force Range* (Foster Wheeler, 1996) and the 2003 *RCRA Facility Investigation Report Addendum* (Foster Wheeler, 2003).~~

As previously discussed, ~~four~~ permanent monitoring wells were installed during the RFI as follows;

- SWMU 114 (M114MW001, M114MW002, M114MW003, and M114MW004)
- SWMU 117 (M117MW001, M117MW002, M117MW003, and M117MW004)
- SWMU 130 (MAO1MW001, MAO1MW002, MAO1MW003, and MAO1MW004)
- SWMU 131 (MAO2MW001S and MAO2MW001D)
- SWMU 132 (MAO3MW001)

~~at SWMU 114 (M114MW001, M114MW002, M114MW003, and M114MW004), four at SWMU 117 (M117MW001, M117MW002, M117MW003, and M117MW004), four at SWMU 130 (MAO1MW001, MAO1MW002, MAO1MW003, and MAO1MW004), two at SWMU at 131 (MAO2MW001S, and MAO2MW001D), and one at SWMU 132 (MAO3MW001).~~ The *Phase I RCRA Facility Investigation for Melrose Air Force Range* (Foster Wheeler, 1996) provides very limited discussion on well construction methodology. Boring logs, well completion reports, etc. for these wells were not provided in the Phase I RFI; however, based on discussions in the 1996 report all these wells were installed in the Ogallala Formation. According to well labels attached to the protective casings on these wells they were installed between October and December of 1995.

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The four wells at SWMU 117, the shallow well at SWMU 131, and the well at SWMU 132 have historically been dry and were abandoned by TRINITY on October 5, 2011 as ~~previously~~ approved by NMED and the New Mexico Office of the State Engineer. Additional discussion regarding the proper abandonment of these wells is included in **Section 2.1.5** and **Section 4.4** of this report.

Since the 1995 RFI, six additional wells have been installed at Melrose AFR. Annual Groundwater Quality Network well MW-14 was installed in the previously permitted EOD pit. ~~This well appears to be a "properly constructed" monitoring well; however, n~~No boring logs, well completion reports, ~~etc~~or well details, have been discovered and the exact installation date is unknown. The United States Geologic Survey (USGS) installed Annual Groundwater Quality Network wells MWQ-1 and MWQ-2 in June 2002 as discussed in *Ground-water hydrology and water quality of the Southern High Plains aquifer, Melrose Air Force Range, Cannon Air Force*

Base, Curry and Roosevelt Counties, New Mexico, 2002-03: U.S. Geological Survey Scientific Investigations Report 2004-5158~~Ground Water Hydrology and Water Quality of the Southern High Plains Aquifer: 2006-5280~~ (Langman, 2004). Well MWQ-1 is currently dry; however, MWQ-2 is routinely sampled. ~~The well~~MWQ-2 was reportedly installed in the Chinle Formation at a depth of 240 feet bls to monitor a thin (two feet thick) confined aquifer section located approximately 100 feet beneath the base of the Ogallala Aquifer. Boring logs, well completion reports, etc., were not provided in the ~~United States Geologic Survey (~~USGS~~)~~ report; however, based on Figure 3 of the USGS report the well appears to have approximately 15 feet of screen.

According to Melrose AFR personnel wells MWQ-18 through MWQ-22 were installed by the USGS subsequent to the 2004 USGS report. Based on available water quality data MWQ-18 and MWQ-19 were installed prior to July 2004; MWQ-20, MWQ-21, and MWQ-22 were installed prior to July 2005. Based on total depth and groundwater quality data, ~~from these wells it~~ appears that MWQ-2, MWQ-19, MWQ-20, and MWQ-22 were all installed in the Chinle Formation; ~~however, this can currently only be confirmed for MWQ-2 (Langman, 2004).~~

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Range Supply Wells

The Range complex at Melrose AFR has historically utilized two wells for supply purposes, Well #11 and Well #13 (**Figure 2,** and **Figure 3**). Well #11 was historically utilized for fire-control, maintenance, and potable supply~~. The well~~but is not currently utilized for potable supply due to elevated levels of perchlorate. Well #11 is completed at a depth of 202 ft bls, with perforated casing from 139 to 197 ft bgs. Well #13, is a high yield source but is located in an area susceptible to munitions damage and has shown elevated levels of arsenic. It is not currently connected to the water supply system (Cannon, 2011). TRINITY was not able to locate well construction details for ~~this w~~Well #13. The installation dates for these two wells is not known by TRINITY. Additional discussion related to these two wells is provided in **Section 1.2.2**.

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~~2.2~~1.2 HYDROGEOLOGIC SETTING

~~2.2.1~~1.2.1 Geology

The stratigraphic units of interest at Melrose AFR are the Chinle, Ogallala, and Blackwater Draw Formations. In eastern New Mexico, these units form the Southern High Plains Aquifer, which is part of a larger aquifer system extending from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South Dakota (Langman, 2004). The Chinle Formation (Triassic age) is the base of the unconfined Southern High Plains Aquifer and is composed of red shales with interbedded sands (redbeds) deposited by low-energy streams in floodplains and deltas. The top of the Chinle Formation is marked by an erosional unconformity with up to several hundred feet of relief (Lee Wan and Associates, Inc., 1990). The Ogallala Formation (Tertiary age) is the uppermost formation for the central and southern parts of Melrose AFR and it lies unconformably over the upper unit of the Chinle Formation. The Blackwater Draw Formation (Quaternary age) overlies the Ogallala Formation in the northern part of Melrose AFR (**Figure 4**).

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In the vicinity of Melrose AFR, the Ogallala dips gently to the southeast; no faults or buried structural lineaments are known to exist in the area. The thickness of the Ogallala Formation may vary significantly over short north-south distances. Two separate sources states that the ~~The~~ base of the Southern High Plains Aquifer (Ogallala Formation) in the northern portion of Melrose AFR lies at a depth of greater than 182 feet bls as demonstrated during ~~D~~drilling conducted as part of the Phase I RFI (Foster Wheeler, 1996) ~~indicated that the depth of the Ogallala Formation along the northern margin of Melrose AFR exceeds 182 feet.~~ and is estimated at approximately 200 feet bls ~~in the northern portion of Melrose AFR~~by Hart (Hart, 1985). ~~Drilling conducted as part of the Phase I RFI (Foster Wheeler, 1996) indicated that the depth of the Ogallala Formation along the northern margin of Melrose AFR exceeds 182 feet.~~ In central portions of Melrose AFR the USGS observed the base of the Ogallala Formation at approximately 135 feet bls (Langman, 2004). In the southwest most corner of Melrose AFR Langman (2004) depicts the Chinle as outcropping (**Figure 4**).

Typically, the erosional surface of the upper unit of the Chinle Formation forms an uneven contact with the Ogallala Formation and in many places is marked with gravel, cobble, or

boulder deposits. The Tertiary aggradational stream deposits filled the valleys, uplands, and fluvial channels of the eroded Triassic deposits (Gustavson, 1996). Coarser materials were deposited in the channels and valleys with finer material between channels. The middle sections of the Ogallala are characterized by unconsolidated fluvial sands, silts, and clays in a fining-upwards sequence, with the upper portion consisting of eolian sands and silts deposited over the fluvial sediments and upland areas separating paleovalleys (Hart, 1985). The unconformity and variable deposition between the Chinle and Ogallala formations and within the Southern High Plains Aquifer have resulted in vertical and horizontal changes in the unit's porosity and permeability and produced a discontinuous aquifer within the Ogallala Formation (Hart, 1985).

Sediments encountered during drilling at Melrose AFR were predominately silts and very fine sand. Gravel, cobble, and boulder deposits normally associated with the base of the Ogallala formation and a fining up sequence above were not commonly identified during drilling activities at Melrose AFR. This is likely due to the majority of the monitoring wells at Melrose AFR not being drilled to the base of the Ogallala Formation where gravel deposits are commonly found. Gravel was identified at the base of the Ogallala Formation during installation of MWQ-2 (Langman, 2004). ~~Although~~ Based on total depth, regional geologic information, etc., wells MWQ-19, MWQ-20, and MWQ-22 appear to also be installed in the Chinle Formation, although no boring logs, well construction reports, ~~etc~~or definitive details have ~~not~~ been located to date. The silts and very fine sand encountered during drilling is likely representative of the eolian sequence of the Ogallala Formation.

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Except where strongly cemented by calcium carbonate (caliche), the near-surface sediments of the Ogallala Formation are loose and friable. Sediments encountered during drilling at Melrose AFR were predominantly silts and very loose sands and are most likely representative of the eolian sequence of the Ogallala Formation. Sediments below approximately 50 feet bls become increasingly indurated with depth, resulting in slow drilling rates and poor sample recovery. Based on regional descriptions of the Ogallala (Hart, 1985; Gustavson, 1996) and more recent drilling by the USGS (Langman, 2004) the~~This~~ high induration appears to have been misinterpreted by others as sandstone, siltstone, and claystone in areas of Melrose AFR (Foster Wheeler 1996; Foster Wheeler 2003).

Authigenic and allogenic clays are found as trace to abundant matrix minerals in the Ogallala (Lee Wan and Associates, Inc., 1990). As reported by Lee Wan and Associates, five zones have been distinguished within the Ogallala Formation of east-central New Mexico on the basis of clay minerals. The clay zones are characterized by moderate to high CEC values. The Ogallala Formation as a whole has a relatively high CEC value, which should inhibit the migration of metals in ionic form.

Caliche is a major feature of the Ogallala Formation, occurring in nearly continuous to discontinuous layers throughout. The uppermost caliche, termed the "climax caliche," crops out around playas and the bounding escarpments of the Ogallala Formation, and is locally termed "caprock." It is typically three to five feet thick. At Melrose AFR, this caprock forms a resistant layer on top of the Mesa in the southwestern corner of the range. Caliches that occur lower in the Ogallala Formation are platy and harder. Caliche is likely to either be thin or absent below playas. A particularly thick layer of caliche occurs between approximately 45 and 55 bls at Melrose AFR.

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~~2.2.2~~1.2.2 Hydrogeology

Melrose AFR is located near the western margin of the Southern High Plains Aquifer of which the Ogallala Formation is the primary water bearing unit. The Southern High Plains Aquifer forms the primary aquifer for ~~both~~ potable, livestock, and irrigation water in the vicinity of Melrose AFR and throughout the eastern New Mexico region. In addition, there are several localized shallow water-bearing zones across the region used for irrigation purposes. No deeper aquifers are known to be in use in the vicinity of Melrose AFR. However, ~~ground water~~groundwater of poorer quality does occur in the Chinle Formation, which underlies the Ogallala Formation. Regional well yields from the Southern High Plains Aquifer vary from less than one gallon per minute (gpm) in thin silts and sands to more than 1,600 gpm in thick sands and gravels (Lee Wan and Associates, Inc., 1990). Within New Mexico, ~~ground water~~groundwater in the Southern High Plains Aquifer generally flows eastward (Hart, 1985), which is considered the overall direction of regional flow in the unconfined aquifer.

The Southern High Plains Aquifer was mapped by Hart as unsaturated or saturated only in

isolated channels in the area occupied by the southern and western portions of Melrose AFR and as saturated in the northern portion (Hart, 1985). The Range complex at Melrose AFR has historically utilized two wells for supply purposes, Well #11 and Well #13 (**Figure 2** and **Figure 3**).

Well #11 was historically utilized for fire-control, maintenance, and potable supply. The well is not currently utilized for potable supply due to elevated levels of perchlorate. The reported concentrations are at similar concentrations to the majority of the monitoring wells at Melrose AFR (two to three micrograms per liter). Well #11 is completed at a depth of 202 ft bgs, with perforated casing from 139 to 197 ft bgs. It ~~At Melrose AFR, the non-potable supply well~~ produced 14 gpm at 35 pounds per square inch (psi) during a pump test in 1985 (William Matotan and Associates Inc., 1985). Static water levels have varied over the years in this well, ranging from 138 feet bls in 1978 (William Matotan and Associates 1985) to 96 feet bls in summer 1995 (Foster Wheeler, 1996). The supply well is located within approximately one mile of all the monitoring wells installed during the Phase I RFI (Foster Wheeler, 1996), but its terminus is approximately 20 feet deeper. Its high production rate and higher static water elevation as compared to other monitoring wells at the investigation sites indicates it was completed in a more permeable portion of the aquifer or perhaps an isolated palaeochannel that has been infilled with coarse gravels. ~~, and possibly, confined aquifer that differs substantially from the water-bearing zones accessed by the other monitoring wells (Foster Wheeler, 1996).~~

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Well #13, is a high yield source (approximately 150 gpm), but is located in an area susceptible to munitions damage and has shown elevated levels of arsenic. It is not currently connected to the water system (Cannon, 2011). TRINITY was not able to locate well construction details for this well.

The ~~ground water~~groundwater hydrology and water quality of the Southern High Plains ~~aquifer~~ Aquifer at Melrose AFR was also further characterized by the ~~United States Geological Survey (~~USGS~~)~~, in cooperation with the US Air Force, based on data collected in 2002 and 2003 and discussed in *Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico,*

2002-03 (Langman, 2004). A 29-well monitoring network that included wells in the impact area and leased lands of Melrose AFR was investigated. Water level measurements and water quality data from the Southern High Plains Aquifer of the Ogallala Formation (28 wells) and deeper, confined aquifer of the Chinle Formation (one well) were analyzed. Information from previous investigations, including water level and water quality data collected statewide and dating from 1962, and results from the Phase I RFI (Foster Wheeler, 1996) and RFI Addendum (Foster Wheeler, 2003) were evaluated as part of the 2004 USGS study.

USGS monitoring data show that water levels in the Southern High Plains Aquifer at Melrose AFR declined between 1962 and 2003. At 13 wells monitored since 1962, water levels declined between one foot and 18 feet during varying periods of record. In wells installed above a localized confining unit (caliche), as part of the Phase I RFI, appear to never have contained ~~ground water~~groundwater. Previous reports have indicated that these shallow wells have become dry due to declining water table (URS, 2009; ~~Tidewater~~Tidewater Inc., Inc., 2010). However, during the Phase I RFI, minimal water was measured in the silt trap of several wells but never appeared to rise above the bottom of the screen. Recent inspections of these wells by TRINITY appear~~s~~ to indicate moist silt has accumulated in the silt traps, likely the result of condensation in the well. These wells ~~never~~ appear to never have contained ~~ground water~~groundwater.

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Using 1978 data, the regional ~~ground water~~groundwater flow direction in the Southern High Plains Aquifer of the Ogallala Formation in the Melrose AFR is to the northeast with a hydraulic gradient of about 0.013 feet per foot (ft/ft), and inferred that the depth to ~~ground water~~groundwater ranged from 40 to 120 feet bls from southwest to northeast across the active portion of the range (Hart, 1985). Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day and hydraulic gradients were between 0.007 and 0.014 ft/ft. Assuming an effective porosity of 25 percent, linear flow velocities at Melrose AFR appear to range from 0.01 to less than 5 feet per year (ft/yr) (Foster Wheeler, 1996). Depths to ~~ground water~~groundwater measured during the Phase I RFI (Foster Wheeler, 1996) varied from an average of 45 feet bls at SWMU 115 in the central part of Melrose AFR to average depths ranging from 112.5 feet to more than 182 feet at all other sites. ~~However, Phase I~~

~~RFI data also indicate that as many as five separate and possibly discontinuous water bearing zones may be present at Melrose AFR, none of which may correlate with the Southern High Plains Aquifer discussed by Hart (1985).~~ The median ~~ground water~~groundwater surface and flow direction within the regional aquifer based on depth to water measurements in 2002 to 2003 is depicted on **Figure 5** (Langman, 2004).

Recharge to the Southern High Plains Aquifer is primarily through precipitation. The recharge rate has been estimated to be very low (0.5 to 0.8 inch/year) and is much lower than the discharge rate (Kearney, 1987). Because of the high evapotranspiration rate and low precipitation, recharge can only occur during cool months, when precipitation my exceed evapotranspiration, or during heavy rainfall events in which the infiltration capacity of the soil is exceeded. When the infiltration capacity of the soil is exceeded, runoff flows to playas. In this instance, the presence of the water in the playas may allow deep percolation to the aquifer. The fact that percolation has occurred is indicated by the presence of clay deposits in playas and the likelihood that caliche is thin or absent directly below the playas. Caliche is soluble in acidic rainwater and over time the solution forms percolation pathways through sediments. Discharge from the Southern High Plains Aquifer occurs through well pumping and springs located along the eroded margins. No discharging springs are known to occur on or near Melrose AFR.

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As previously discussed, limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available this has not been entirely confirmed. With that in mind, it appears that w~~W~~ater level contours for the unconfined Southern High Plains Aquifer indicate ~~ground water~~groundwater flows predominantly to the northeast from the Mesa to the Portales Valley (**Figure 5**). The flow direction changes in the Portales Valley, indicating two flow systems are present, one local, and one regional. In the local flow system, ~~ground water~~groundwater in the southwestern part of Melrose AFR flows northeast, while regional flow

is to the east to southeast across the northern part of Melrose AFR. It appears that the direction of ~~ground water~~groundwater flow reflects the contact between the Ogallala and Chinle formations, which determines ~~ground water~~groundwater gradient and saturated thickness of the Southern High Plains Aquifer. The local flow~~-~~ system gradient is about 1.3 percent, and the regional flow system gradient is about 0.1 percent. The saturated thickness of the aquifer increases as the local and regional flow systems merge.

Regional water quality in the Southern High Plains Aquifer is generally good, with total dissolved solids (TDS) ranging from 250 to 500 milligrams per liter (mg/L) (Gutentag, 1984) and fluorides ranging from 2.2 to 2.7 mg/L (William Matotan and Associates Inc., 1985). Water quality data for the Melrose AFR supply well (Well #11, screened in the Ogallala Formation) provided by Cannon AFB in September 1995 indicated dissolved solids at 555 mg/L, filterable residues at 461 mg/L, and fluoride at 2.1 mg/L.

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Groundwater in the Chinle is of poorer quality than the Ogallala Aquifer and is generally characterized by high concentrations of TDS (<1,000 to 10,000 mg/L) and sodium (in some locales the sodium concentrations are high enough to make the ~~ground water~~groundwater unusable for potable, irrigation, or livestock supply purposes). Uranium commonly occurs throughout the Dockum Group of which the Chinle Formation is a member and is the source for commonly elevated radium-226 and radium-228 levels in the ~~ground water~~groundwater (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley & Sanjeev, Report 359: The Groundwater Resources of the Dockum Aquifer in Texas, 2003) (Bradley &

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According to the USGS, ~~R~~results of water quality analysis for samples collected in 1995, 2000, and 2002-2003 indicate three areas or sources of different water quality types at Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). ~~Ground water~~Groundwater quality near the Mesa was similar to that of the regional flow system and to water from the southern part of Melrose AFR. Ion concentrations in ~~ground water~~groundwater from the center of the impact area were similar to ~~ground water~~groundwater from the underlying Chinle Formation, indicating likely connection with the deeper water-producing zone. Results of monitoring in 2004 showed that higher concentrations of dissolved solids and metals occur in the impact area; thereby confirming that ~~ground water~~groundwater in the impact area is different

from other ~~ground water~~groundwater at Melrose AFR (Langman, 2004). No pesticides, explosives, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or organic halogens were found in the ~~ground water~~groundwater samples from the 2002-2003 events (Langman, 2004). Perchlorate was detected at estimated concentrations in wells MWQ-14 (2.6 micrograms per liter (µg/L)) and MWQ-15 (20 µg/L). However, Langman (2004) attributed the perchlorate results to analytical method interference due to elevated chloride concentrations in these samples.

~~Ground water~~Groundwater age, determined during the USGS study, indicates ~~ground water~~groundwater is less than 55 years old across the range, with younger ~~ground water~~groundwater occurring near the Mesa and ephemeral drainages (less than 25 years) and older water toward the Portales Valley (25 to 55 years) (Langman, 2004). The Ogallala Formation is the primary source of water for domestic, municipal and irrigation uses in this region of New Mexico.

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~~2.2.3~~1.2.3 Topography

Melrose AFR is located in the Southern High Plains physiographic region and lies atop a large plateau known as the Llano Estacado (Hawley, 1976). The Llano Estacado is a nearly flat plain that slopes gently (typically 10 to 15 feet per mile) to the east and southeast from eastern New Mexico into western Texas. In eastern New Mexico, the Llano exceeds 4,000 feet above mean sea level (amsl), and elevations in the vicinity of Melrose AFR range from 4,200 to 4,650 feet amsl **Figure 6**. Streams in the region are ephemeral and the regional drainage pattern is poorly developed. The closest named drainages to Melrose AFR are Chapman Draw, approximately two miles west of Melrose AFR, and Cañada del Tule, about two miles southeast of the southeastern corner of Melrose AFR. Chapman Draw drains to the north, and Cañada del Tule drains to the east. The surface topography of Melrose AFR slopes to the northeast and overland flow and ephemeral drainage from the area of the sites is toward the northeast and not toward either named drainage.

The most prominent geomorphic features in the vicinity of Melrose AFR are two spurs of an escarpment known as the Mesa, which rise about 200 feet above the average elevation of the

surrounding surface. The northern spur, referred to as the West Mesa, which runs near the western side of the active impact area, ends in a small butte near the center and overlooks much of the facility. Various observation and communication and control facilities associated with operations at Melrose AFR are located on the butte. The eastward-trending southern spur, which bounds the southern side of the active impact area, is referred to as the South Mesa.

Melrose AFR topography (excluding the Mesa) is open and mostly flat, gently sloping to the northeast. The Mesa dominates the southwest part of Melrose AFR. It is a topographic high and is part of the Western Caprock Escarpment that defines the western boundary of the Southern High Plains aquifer. The Mesa has a plateau area of about 7,775 acres ranging in altitude from 4,600 to 4,700 feet amsl and forms the surface basin boundary between the Pecos River Basin to the west and the Portales Valley to the east. The Impact Area gently slopes from southwest to northeast, away from the Mesa.

REDLINE VERSION
Not for distribution

~~2.2.4~~1.2.4 Soils

According to the soil survey of Curry and Roosevelt County (USDA 2010), soil types in the Melrose AFR area include loams, fine sandy loams, and loamy fine sands of the Amarillo-Clovis association and calcareous soils of the Potter-Mansker association. These soils would be classified as fine sandy silt (ML), silty fine sand (SM), clayey sand (SC), and clayey sand to silty, fine sandy clay (SC-CL) under the Unified Soil Classification System, and as aridisols (calciorthids) under the US Department of Agriculture-Soil Conservation Service Comprehensive Soil Classification System.

~~2.2.5~~1.2.5 Surface Water Drainage Systems

Relict sand dunes and minor playas are located to the north of Melrose AFR, along the southern side of the US Highway 84, and larger playas with surface areas greater than 1/3 square mile are present one to two miles north of Melrose AFR. During periods of rainfall, the playas collect surface runoff to form ephemeral playa lakes.

An arroyo drainage rises in the southwest corner of Melrose AFR, at the intersection of the West and South mesas, and extends about four miles to the northeast across the active impact area

before its surface expression fades out. Other than the arroyo, no streams or integrated drainage pattern exists on or near Melrose AFR. An impoundment formed by an earthen dam about a mile upstream of the drainage's terminus intermittently stores surface water during periods when precipitation is sufficient to generate flow. During most of the year both the arroyo and impoundment are dry. No other surface water bodies are located within Melrose AFR except minor ephemeral channels including the Chapman Draw and the Cañada del Tule, which originate at the Mesa.

~~2.2.6~~1.2.6 Climate

The climate of the east-central New Mexico area is tropical semiarid. Based on data collected from 1914 to 2007 for the village of Melrose, the average annual minimum and maximum temperatures are 42.3 and 72.8 degrees Fahrenheit (°F); the maximum temperatures and precipitation occur during the summer months. The Melrose area is characterized by highly variable precipitation patterns; the average monthly precipitation ranges from 0.42 inches in January to 2.91 inches in July. The average annual precipitation is 16.19 inches, and most of the precipitation is lost to evaporation. Annual pan evaporation at a weather station in Clovis, New Mexico, is 86.68 inches; evaporation is greatest between May and August (Western Regional Climate Center). In the chart below, recent local rainfall (daily and monthly) is plotted for Melrose AFR. As is evident from the chart, the site vicinity receives the majority of annual rainfall during the summer months. The total annual rainfall for 2010 and 2011 (~~to date~~current as of~~,~~ November 21, 2011) was 20.06 and 7.02 inches, respectively. Rainfall in 2010 exceeds the annual average for the vicinity of 16.19 inches (Weather Undergound, 2011). Rainfall in 2011 is below the annual average. The area is characterized by highly variable precipitation patterns, the apparent greater than normal rainfall in 2010 and the lower than normal in 2011 may not be altogether atypical.

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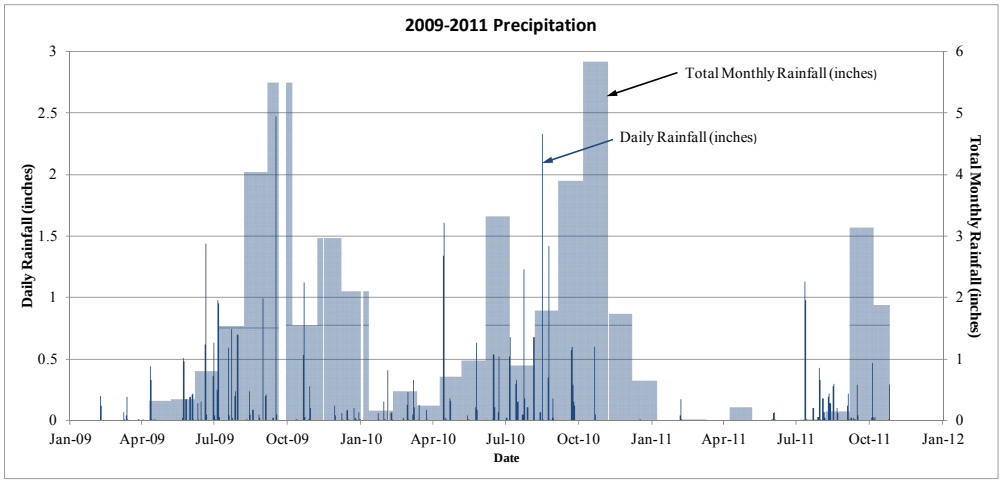

Prevailing winds are from the west with an average speed of ~~8~~ eight miles per hour. Windblown dust is generated frequently in this region of the country because the winds are often gusty and the climate is semiarid. The Texas Panhandle/eastern New Mexico area is considered to have the highest dust particulate counts in the continental United States; occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the average daily wind speed commonly exceeds 20 to 20 mph and the average monthly wind speed approaches 15 mph (Weather Undergound, 2011).

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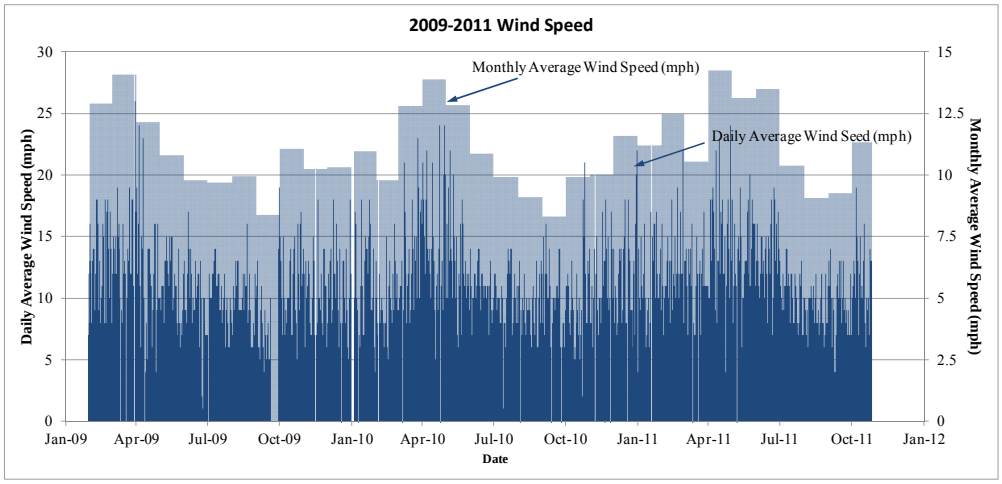

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~~2.3~~1.3 MONITORING PLAN

~~2.3.1 Monitoring Requirements~~

~~2.3.2~~1.3.1 Semiannual – SWMU ~~Ground Water~~Groundwater Quality Network Monitoring Requirements

Based on the previously approved Work Plan~~–~~ (~~Tidewater~~Tidewater Inc.Tidewater Inc. Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) the current ~~ground water~~groundwater monitoring plan provides for semiannual testing at ten wells associated with the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network. A proposed alternate background monitoring well (MWQ-23), ~~upgradient of the SWMUs,~~ was sampled as part of the 2011 sampling schedule. As previously discussed, sampling of MWQ-23 is to be discontinued and a new background well upgradient of the SWMUs, adjacent to MWQ-10, will be ~~installed~~proposed by TRINITY in a separate Well Installation Work Plan. ~~adjacent to MWQ-10~~. The accompanying tables summarize current testing requirements.

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Analyte	Field Parameters [1]	VOCs [2]	Explosives [3]	Metals [4] (Total & Diss.)	Chromium (VI)	Cyanide	Mercury	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	**NA**	**8260B**	**8330**	**6010C**	**7196A**	**9012A**	**7470A**	**300.0**	**300.0**	**6860**	**2320B**	**2540C**
M114MW001	x	x	x	x	x	x	x	x	x	x	x	x
M114MW002	x	x	x	x	x	x	x	x	x	x	x	x
M114MW003	x	x	x	x	x	x	x	x	x	x	x	x
M114MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW001	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW002	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW003	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO2MW001D	x	x	x	x	x	x	x	x	x	x	x	x
MWQ-23	x	x	x	x	x	x	x	x	x	x	x	x

Semiannual - SWMU ~~Ground Water~~Groundwater Quality Network

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] VOCs: Target Compound List

[3] Explosives: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene, 4-Nitrotoluene, HMX, Nitrobenzene, RDX, Tetryl

[4] Metals: Target Analyte List

~~2.3.3~~

~~2.3.4~~1.3.2 Annual ~~Ground Water~~Groundwater Quality Network Monitoring Requirements

Based on the previously approved Work Plan (~~Tidewater~~Tidewater Inc.Tidewater Inc. Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011)~~(Trinity Analysis & Development Corp, 2011)~~ the current ~~ground water~~groundwater monitoring plan provides for annual testing at 14 wells associated with the Annual ~~Ground Water~~Groundwater Quality Network. The accompanying tables summarize testing requirements.

Annual - ~~Ground Water~~Groundwater Quality Network

Analyte	Field Parameters	Metals (Total & Diss.)	Chromium (VI)	Cyanide	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	NA	6010C	7196	9012A	353.2	300.0	314.0	2320B	2540C
MWQ-2	x	x	x	x	x	x	x	x	x
MWQ-3	x	x	x	x	x	x	x	x	x
MWQ-4	x	x	x	x	x	x	x	x	x
MWQ-5	x	x	x	x	x	x	x	x	x
MWQ-6	x	x	x	x	x	x	x	x	x
MWQ-7	x	x	x	x	x	x	x	x	x
MWQ-10	x	x	x	x	x	x	x	x	x
MWQ-14	x	x	x	x	x	x	x	x	x
MWQ-18	x	x	x	x	x	x	x	x	x
MWQ-19	x	x	x	x	x	x	x	x	x
MWQ-20	x	x	x	x	x	x	x	x	x
MWQ-21	x	x	x	x	x	x	x	x	x
MWQ-22	x	x	x	x	x	x	x	x	x
MWL-6	x	x	x	x	x	x	x	x	x

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Not for distribution

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] Metals: Target Analyte List

~~2.3.5~~1.3.3 Data Summary

Although this report includes readily available historical water quality data collected since

January 2004, the focus of this report is on data collected in the most recent one-year reporting period (2011). The table below summarizes the known water quality testing events conducted at Melrose AFR and presented in this report. ~~It should be noted that this table is likely not comprehensive of all ground water sampling conducted at Melrose AFR. As additional data is discovered or made available it will be included in summary tables and utilized for the purposes of discussion.~~

Summary of Water Quality Test Events

Sampling Event			USGS January 2004[1]	USGS July 2004[2]	USGS July 2005[1]	USGS June 2007[2]	Initial Baseline Ground Water Monitoring[3, 4]	2010 Spring Semiannual & Annual Sampling Event[4,5]	2010 Fall Semiannual Sampling Event[5]	2011 Spring Semiannual & Annual Sampling Event[4,5]	2011 Fall Semiannual Sampling Event[5]
Sample Dates		Start	1/12/2004	7/19/2004	7/18/2005	7/18/2007	1/20/2009	1/26/2010	10/25/2010	5/3/2011	9/27/2011
		End	1/15/2004	7/21/2004	7/20/2005	7/22/2007	2/3/2009	3/4/2010	10/29/2010	5/18/2011	10/3/2011
Semiannual - SWMU Ground Water Monitoring Well Network	SWMU 114	M114MW001	---	---	---	---	x	x	x	x	x
		M114MW002	---	---	---	---	x	x	x	x	x
		M114MW003	x	x	x	x	x	x	x	x	x
		M114MW004	---	---	---	---	x	x	x	x	x
	SWMU 117	M117MW001	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW002	---	---	---	---	x	DRY	DRY	DRY	Abandoned
		M117MW003	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW004	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 130	MAO1MW001	---	---	---	---	x	x	x	x	x
		MAO1MW002	---	---	---	---	x	x	x	x	x
		MAO1MW003	x	x	---	---	x	x	x	x	x
		MAO1MW004	---	---	---	---	x	x	x	x	x
	SWMU 131	MAO2MW001D	x	x	x	x	x	x	x	x	x
		MAO2MW001S	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 132	MAO3MW001	---	---	---	---	---	---	---	DRY	Abandoned
	MWQ-23		---	---	---	---	---	---	---	x	x
Annual - Ground Water Quality Well Network	MWQ-2		x	x	x	x	x	x	---	x	---
	MWQ-3		x	x	x	x	x	x	---	x	---
	MWQ-4		---	---	---	x	x	x	---	x	---
	MWQ-5		x	x	x	x	x	x	---	x	---
	MWQ-6		x	x	---	x	x	x	---	x	---
	MWQ-7		---	---	---	x	x	x	---	x	---
	MWQ-8		---	---	---	x	DRY	DRY	---	DRY	---
	MWQ-10		x	x	x	x	x	x	---	x	---
	MWQ-14		x	x	x	x	x	x	---	x	---
	MWQ-18		---	---	x	x	x	x	---	x	---
	MWQ-19		---	---	---	---	x	x	---	x	---
	MWQ-20		---	---	x	x	x	x	---	x	---
	MWQ-21		---	---	x	x	x	x	---	x	---
	MWQ-22		---	---	x	x	x	x	---	x	---
	MWL-6		---	---	x	x	---	x	---	x	---

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x = sampled; --- = not sampled

[1] Filtered ground-water samples were analyzed for explosives, metals, nitrate plus nitrite, ammonia as nitrogen, phosphorus, anions (bromide, chloride, fluoride, and sulfate), sulfide, organic carbon, alkalinity, dissolved solids, and perchlorate.

[2] Filtered ground-water samples were analyzed for volatile organic compounds, semi-volatile organic compounds, organochlorine

pesticides, organophosphorus pesticides, metals, anions (bromide, chloride, fluoride, and sulfate), alkalinity, dissolved solids, organic carbon, phosphorus, sulfide, ammonia, nitrate plus nitrite, and perchlorate.

[3] 2009 Semiannual samples were collected and analyzed for VOCs, SVOCs, organochlorine pesticides, metals, hexavalent chromium, perchlorate, bromide, chloride, fluoride, sulfate, explosives, TOC, phosphate, and ammonia.

[4] 2010-2011 Annual samples were collected and analyzed for metals, TDS, hexavalent chromium, alkalinity, TOC, phosphate, ammonia, and nitrate/nitrite.

[5] 2010-2011 Semiannual samples were collected and analyzed for VOCs, explosives, metals, chloride, sulfate, nitrate, nitrite, total dissolved solids, alkalinity, cyanide, perchlorate, and hexavalent chromium.

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2.0 SCOPE OF SERVICES

~~2.4~~2.1 SUMMARY OF FIELD ACTIVITIES

The Annual ~~Ground Water~~Groundwater Monitoring Report focuses on data collected during the most recent one-year reporting period (2011). The 2011 spring sampling event, which included sampling associated with both the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network and the Annual ~~Ground Water~~Groundwater Quality Network was conducted between May 3 and May 18, 2011. The 2011 fall sampling event, which included sampling associated with the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network was conducted between ~~November 27~~September 26 and October 3, 2011.

The most recent field activities were completed in general accordance with field protocols included in the approved work plan ~~(Tidewater~~Tidewater Inc.~~ 2010)~~(Tidewater Inc. Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011). Activities ~~planned for~~accomplished during the recent field sampling events included the following:

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- inspected~~ing~~ the monitoring well network (Semiannual SWMU ~~Ground Water~~Groundwater Quality Network and the Annual ~~Ground Water~~Groundwater Quality Network),
- collect~~ing~~ed ~~ground water~~groundwater levels from the entire monitoring network,
- ~~collecting~~ collected ~~ground water~~groundwater samples from the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network and the Annual ~~Ground Water~~Groundwater Quality Network,
- ~~collecting ground water levels from the entire monitoring network, inspecting the monitoring well network (Semiannual SWMU Ground Water Quality Network and the Annual Ground Water Quality Network),~~
- ~~abandoning~~ abandoned six shallow, dry wells,
- conducted well head maintenance, and
- geophysically logging selected wells.

Activities associated with each task are discussed in more detail below. Semiannual sample locations are depicted on **Figure 3**, Annual sample locations are depicted on **Figure 7**, and well construction details are summarized in **Table 1**.

~~2.4.1~~2.1.1 Monitoring Well Network - ~~Ground Water~~Groundwater Sampling

Prior to sampling, the wells were purged using low-flow sampling techniques using a QED SE-1102PM stainless steel bladder pump or a Proactive SS Mega-Monsoon stainless steel submersible pump. Field parameters were monitored with an YSI 600-XLM multi-parameter water quality meter with attached flow through cell. The YSI multi-parameter water quality meter monitored dissolved oxygen (DO), temperature, pH, conductivity, and oxidation reduction potential (ORP). Turbidity was monitored with a Hanna HI-98703 Turbidity Meter. ~~Ground water~~Groundwater levels were measured prior to pumping and during pumping to monitor drawdown. Water levels were measured with a Solinst Water Level Meter (600 foot). The water quality meter was calibrated once per day before use. The turbidity meter was~~is~~ calibrated at the commencement of sampling activities ~~once every three months~~, with the calibration verified each day of use, per the manufacturers instruction. ~~Ground water~~Groundwater sampling logs are provided in Appendix A.

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Gulf Coast Analytical Laboratories, Inc. (GCAL), Baton Rouge, LA was used for sample analysis during this investigation. GCAL is accredited in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) (Certificate Number 01955), and the DoD Environmental Laboratory Accreditation Program (ELAP) (Certificate Number 1482). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents. Analytical data validation was conducted by third party Environmental Data Professional, LLC (eDATApro), Lake Charles, LA.

In accordance with the approved work plan ~~(Tidewater~~Tidewater Inc.~~ 2010)~~(Tidewater Inc. Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) a quality control-split sample was collected and submitted to an alternate laboratory. The purpose of the split sample ~~is~~ was to use the alternate laboratory to verify the accuracy of the primary laboratory. Accutest Laboratories (Accutest), Tampa, FL was used for

analysis of the split sample. Accutest is accredited in accordance with the NELAC (Certificate Number E83510), and the DoD ELAP (Certificate Number L2229). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents.

In accordance with the approved work plan ~~(Tidewater~~Tidewater Inc.~~ 2010)~~(Tidewater Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) Field Duplicate samples and Equipment Blanks were collected at a 10-percent rate (i.e., one per every 10 samples collected) for all parameters. Laboratory quality control (QC) samples, including matrix spike/matrix spike duplicates (MS/MSDs), were collected at a 5-percent rate (i.e., one per every 20 samples collected) for all parameters. Trip Blanks were analyzed for VOCs and were included in each cooler shipped to the laboratory from the field. Split Samples were collected at a 5-percent rate (i.e., one per every 20 samples collected). For ease of reporting the Annual ~~Ground Water~~Groundwater Quality Network and the Semiannual ~~Ground Water~~Groundwater Quality Network were reported by the laboratory as separate Sample Delivery Groups (SDGs). As such, QC samples collected in the field are associated with one or the other SDG but not both. All Trip Blanks are associated solely with the Semiannual ~~Ground Water~~Groundwater Quality Network as VOCs are not collected as part of the Annual ~~Ground Water~~Groundwater Quality Network.

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Analysis of samples within the prescribed holding time is critical to ensuring that samples may be considered valid and representative of the sample matrix. Sample holding time is defined as the interval between sample collection and sample preparation/analysis. Allowable holding times for analyses employed in this investigation are included in the table below.

Appropriate Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Method	Container	Preservation	Maximum Holding Time
Alkalinity	SM2320B	Plastic	Cool, ≤6 °C	14 days
Cyanide	SW 846 9012A	Plastic	Cool, ≤6 °C, NaOH to pH>12	14 days
Explosives	EPA 8330	Glass Amber	Cool, ≤6 °C	14 days
Hexavalent Chromium	SW 846 7196A	Plastic	Cool, ≤6 °C	24 hours
Metals	EPA 6010C	Plastic	HNO3 to pH<2	6 months
Nitrate + Nitrite	EPA 353.2	Plastic	Cool, ≤6 °C	48 hours
Perchlorate	EPA 314.0	Plastic	Cool, ≤6 °C	28 days

Chloride, Sulfate	EPA 300.0	Plastic	Cool, ≤6 °C	28 days
Total Dissolved Solids	SM2540C	Plastic	Cool, ≤6 °C	7 days
VOCs	8260B	G, FP-lined septum	Cool, ≤6 °C, HCl to pH 2	14 days

Samples intended for chemical analyses were packed on wet ice in sealed coolers for preservation during transport to the laboratory. Preservation ensures a temperature of 4º ±2°Celsius (°C) upon receipt by the contract laboratory. Samples were shipped by overnight commercial courier to the designated laboratory. Proper shipping and handling protocol included: filling of containers with an appropriate amount of sample medium, ensuring that container lids were tight, ensuring that labels were completed, wrapping containers in bubble wrap for protection, double bagging of ice, and inclusion of appropriate quality assurance/quality control (QA/QC) blanks. Chain-of-custodies (COCs) accompanied samples in a waterproof plastic bag taped to the inside of the cooler lid. Copies of the COCs are provided in **Appendix A**.

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Decontamination procedures were in general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011). Sufficient quantity of clean equipment was transported to the field to last the entire day. Disposable equipment was used when possible to eliminate the possibility of cross contamination. Additionally, new sample containers for laboratory analyses were provided by the laboratory for each sample collected.

~~2.4.1.1~~2.1.1.1 2011 Semiannual Spring - ~~Ground Water~~Groundwater Quality Network

~~Ground water~~Groundwater samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	05/09/2011 09:55
	M114MW002	05/06/2011 11:35
	M114MW003	05/06/2011 14:30
	M114MW004	05/05/2011 15:16
SWMU 130	MAO1MW001	05/09/2011 14:16
	MAO1MW002	05/16/2011 09:35
	MAO1MW003	05/10/2011 13:20
	MAO1MW004	05/10/2011 11:11
SWMU 131	MAO2MW001D	05/05/2011 12:23
Proposed Background	MWQ-23	05/16/2011 11:10

The monitoring wells were purged and sampled using low-flow sampling techniques using a

Proactive SS Mega-Monsoon stainless steel submersible pump. As previously discussed, limited to no well construction information is available for the majority of the wells at Melrose AFR. Specifically, the screened interval for most wells is unknown. All wells, where applicable, were sampled from approximately two to five feet from the bottom of the well. It is possible that the wells are constructed with a large sump, but unlikely. Therefore, a~~A~~ll monitoring wells were likely sampled from within the screened interval. Sample locations are depicted on **Figure~~s~~ 3** and **Figure 7** and well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in **Table 2 ~~and Table 3~~through Table 6**.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the approved work plan ~~(Tidewater~~Tidewater Inc. ~~2010)~~(Tidewater Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Incorporating maximum expected well and tank parameters purge volume of approximately 100 gallons was estimated. This is necessary to provide an assurance that the ~~ground water~~groundwater being collected is representative of the ~~ground water~~groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump ~~will~~ was~~be~~ opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters ~~will~~ were then ~~be~~ collected. ~~All wells were sampled from within the screened interval.~~ As previously stated, TRINITY is proposing to remove MWQ-23 from the sampling network as no well construction details are known and it does not appear to represent an ideal background sampling location for the SWMUs.

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Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana

via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MW114MW001
- MS/MSD: MAO1MW001
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5, TB-6, TB-7, TB-8, and TB-9 (TB-3 was submitted to Accutest as part of the Split Sample)

~~2.4.1.2~~2.1.1.2 2011 Annual Spring - ~~Ground Water~~Groundwater Quality Network

~~Ground-water~~Groundwater samples were collected from the following wells at the dates and times specified:

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Sampling Schedule

	MWQ-2	05/05/2011 09:26
	MWQ-3	05/03/2011 09:15
	MWQ-4	05/03/2011 10:18
	MWQ-5	05/03/2011 11:57
	MWQ-6	05/03/2011 13:12
Background	MWQ-7	05/03/2011 13:53
Background	MWQ-10	05/03/2011 15:23
	MWQ-14	05/13/2011 12:31
	MWQ-18	05/12/2011 12:40
	MWQ-19	05/12/2011 09:50
	MWQ-20	05/17/2011 13:22
	MWQ-21	05/11/2011 13:05
	MWQ-22	05/11/2011 11:01
	MWL-6	05/18/2011 14:30

Due to the depth to water and the ~~TD~~ total depth of the wells, MWQ-2, MWQ-20, and MWQ-22 were purged and sampled using low-flow sampling techniques by using a QED SE-1102PM stainless steel bladder pump. Wells MWQ-14 and MWL-6 were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. With the exception of MWQ-4, the remaining wells are plumbed with pressure tanks and dedicated submersible pumps. Well MWQ-4 is plumbed with a dedicated submersible pump powered by a solar panel~~. Due to the shallow depth to ground water MWQ-4~~and is not plumbed to a pressure tank.

Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10~~The wells~~ have pressure tanks (approximately 20 to 50 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the approved work plan ~~(Tidewater~~Tidewater Inc.~~, 2010)~~(Tidewater Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, purge volumes are estimated to range from 100-350 gallons. This is necessary to provide an assurance that the ~~ground water~~groundwater being collected is representative of the ~~ground water~~groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump ~~will~~ was~~be~~ opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters ~~will~~ were then ~~be~~ collected.

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In the ~~review, dated October 27, 2009, of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, June 2009*~~ (URS, 2009) NMED stated:

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> "*NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
>
> *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…*"

TRINITY therefore proposes to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the groundwater sampling network. A proposal to remove MWQ-10 from the network will not be requested until installation of the new background well has been completed.

Sample locations are depicted on **Figure~~s~~ 3** and **Figure 7** and known well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium.

A summary of analytical and field data from the most recent sampling event is provided in **Table 2** through ~~and **Table 3**~~ **Table 6**.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MWQ-5 and MWQ-20
- MS/MSD: MWQ-10 and MWQ-14
- Split Sample: MWQ-22
- Equipment Blank: EB-2
- Trip Blanks: numerous

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~~2.4.1.3~~2.1.1.3 2011 Semiannual Fall - SWMU ~~Ground Water~~Groundwater Quality Network

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~~Ground water~~Groundwater samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	09/30/2011 12:36
	M114MW002	10/03/2011 09:32
	M114MW003	10/03/2011 11:46
	M114MW004	09/30/2011 10:00
SWMU 130	MAO1MW001	09/27/2011 09:33
	MAO1MW002	09/29/2011 13:06
	MAO1MW003	09/27/2011 12:21
	MAO1MW004	09/29/2011 11:10
SWMU 131	MAO2MW001D	09/28/2011 10:28
Proposed Background	MWQ-23	09/29/2011 08:40

The monitoring wells were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. All monitoring wells were sampled from within the screened interval. Sample locations are depicted on **Figures 3** and **Figure 7** and well construction summary details are provided in **Table 1**. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and

analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in **Table 2** through ~~and~~ **Table 6~~4~~**.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, a volume of approximately 100 gallons was ~~purged~~estimated and purged. This is necessary to provide an assurance that the ~~ground water~~groundwater being collected is representative of the ~~ground water~~groundwater in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump ~~will~~ was~~be~~ opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters ~~will~~ were then ~~be~~ collected. ~~As previously stated, TRINITY is proposing to remove MWQ-23 from the sampling network as no well construction details are known and it does not appear to represent an ideal background sampling location for the SWMUs.All wells were sampled from within the screened interval.~~

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Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: FD-1
- MS/MSD: MAO1MW003
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5 and TB-6 (TB-3 was submitted to Accutest as part of the Split Sample)

~~2.4.2~~2.1.2 Investigation Derived Waste

Investigation-derived waste (IDW) from the Spring 2011 sampling event consisted of purge and decontamination water. All IDW collected during groundwater sampling was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into 55-gallon drums located at a designated area for IDW storage. The 55-gallon drums contained a limited amount of purge water from sampling conducted by URS in 2009. All IDW storage drums were labeled according to the field sampling plan outlined in the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011). During the Fall 2011 Sampling event TRINITY coordinated with Eco-logical Environmental Services, Inc. (ECO) for proper disposal on non-hazardous waste. ECO mobilized to Melrose AFR on October 5, 2011 to pick up the IDW. ECO transported and disposed of the IDW at Southwest Landfill in Canyon, Texas. Copies of the Waste Manifest are included in **Appendix A**.

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IDW from the Fall 2011 sampling event was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into a 250-gallon carboy located at a designated area for IDW storage. TRINITY has submitted copies of the laboratory data to Cannon AFB for submittal to NMED. NMED has since given ~~aothourization~~authorization for disposal of the IDW.~~and is currently waiting for approval to dispose of t~~ The IDW will be disposed of in accordance with the approved work plan ~~(Tidewater~~Tidewater Inc.~~ 2010)~~(Tidewater Inc., 2010) and the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011).

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~~2.4.3~~2.1.3 ~~Ground Water~~Groundwater Elevation Measurements

Water levels were measured from the surveyed elevation reference points on the tops of the polyvinyl chloride (PVC) casings or, in the case of metal or concrete well casings, from the highest point of the casing using a Solinst Water Level Meter (600 foot). Measurements were taken to the nearest hundredth of a foot, and were documented in the log book. The probes were decontaminated before use, between wells, and at the conclusion of measurement activities. Recent and historical ~~ground water~~groundwater level measurement information is presented in

Table ~~5~~2.

Water levels from the Spring 2011 sampling event were collected prior to the start of groundwater sample collection at all accessible monitoring wells prior to well purging and sampling between May 3 and May ~~16~~18, 2011. Water levels from the Fall 2011 sampling event were collected between September ~~27~~26, 2011 and October 3, 2011.

Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10 and water~~-~~-level only wells MWL-1, MWL-2, and MWL-3 and MWQ-23 contain pumps, integral plumbing, and in most cases live electrical wires. Therefore, water levels are not routinely taken due to the electrical shock hazard and high likelihood of the water level tape becoming entangled in the wiring. Additionally, water~~-~~-level only wells MWL-2 and MWL-3 are located adjacent to the Jockey ~~l~~Live ~~f~~Fire ~~r~~Range. Due to their proximity to Jockey ~~l~~Live ~~f~~Fire ~~r~~Range, TRINITY has only accessed MWL-2 once and has never been provided access to inspect~~ed~~ or collect~~ed~~ water levels from MWL-3.

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~~2.4.4~~2.1.4 Monitoring Network Well Inspection/Maintenance

Well inspections sought to verify presence of: identification tag, total well depth, well type completion, presence, and condition of bollards, protective casings, well pads, type of cap, etc. Well conditions for the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network and Annual ~~Ground Water~~Groundwater Quality Network are summarized in **Table 1** and a photographic log of the wells inspected is presented in **Appendix ~~B~~E**. As previously stated access to MWL-2 and MWL-3 is restricted/limited due to their proximity to Jockey ~~l~~Live ~~f~~Fire ~~r~~Range. ~~Due to access issues to the Impact Area it was not possible to inspect or collect water levels from MWL-3.~~

~~2.4.5~~2.1.5 Monitoring Well Abandonment

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon six wells. The six "dry" wells previously approved for abandonment by NMED are M117MW001, M117MW002, M117MW003, M117MW004,

MAO2MW001S, and MAO3MW001. TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer.

~~2.4.6~~2.1.6 Geophysical Logging Activities

The geophysical logging suite selected consisted of natural gamma~~-ray~~ and induction resistivity logs. These logs were selected because of their ability to provide 'through-casing' measurements of various geophysical properties of the ~~aquifer through existing well casings~~target formation(s).

~~2.4.6.1~~2.1.6.1 Gamma Logs

The natural gamma ~~ray~~ log is the most widely used nuclear log in ~~ground water~~groundwater applications. The log provides a vertical profile or record of gamma radiation emitted by unstable elements in the formation. In most sedimentary environments, the radiation measured by the probe comes primarily from potassium-40 and daughter products of the uranium and thorium decay series. Of these three nuclides, potassium-40 originating from clay minerals such as illite (mica) and montmorillonite is usually the major contributor gamma radiation. As the logging probe is cycled in or out of the well, its scintillation detector receives gamma radiation emanating from the formation opposite the probe. Approximately 90% of the radiation measured by the probe originates within the first 6-12 inches of the formation being investigated. The scintillation detector uses a crystal that emits light when struck by gamma rays, which is then amplified and converted to an electrical signal by a photomultiplying tube. The electrical signal is then processed into a numerical value (counts per second) that is recorded versus depth.

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The gamma log has many uses in hydrogeology that are applicable to the geology/hydrogeology at Melrose AFR. The most common uses are lithologic identification and stratigraphic correlation, which are particularly relevant to mapping ~~ground water~~groundwater flow regimes and migration of contaminants. Other uses include qualitative identification of relative grain size trends in vertical profile and interpretation of depositional environment (also relevant to ~~ground water~~groundwater flow and contaminant transport). The gamma log is also used for collecting data of a confirming or validating nature regarding well construction. Its ability to read though well casing make it useful for auditing physical descriptions of sediments recorded in boring logs

and verifying well screen targets.

Various rock types and sediments can be characterized by their gamma intensity, but the ranges of intensities are variable and often common to several materials, hence some background knowledge of local geology is needed to correctly interpret the gamma log. With respect to the Ogallala Aquifer and Chinle Formation, interpretation is based primarily on the assumption that clay and fine-grained detrital sediments contain more radioactive elements than quartz sand and are thus distinguished from the latter by greater gamma intensity. High counts/second readings on the log are interpreted to be more clayey sediment; low counts/second readings are interpreted as more sandy material. While the gamma log can be used to calculate clay content in some cases, particularly where enough laboratory data has been collected to support an empirical relationship, it is most commonly used as a qualitative indicator of sand and clay.

Extraneous effects that can complicate gamma log interpretation need to be considered when viewing the logs. Some of the more important ones relevant to the geology/hydrogeology at Melrose AFR include the fact that radioactive elements and minerals such as uranium and biotite may be present in sands, uranium can be concentrated in organic layers, and all clays are not necessarily equal in their gamma intensity. Extraneous effects relevant to any logging effort include tool position in the well (an eccentralized probe can give a different response than a centralized probe in larger diameter holes (≥8-inch diameter); borehole diameter has an effect on measured radiation, as do washouts and oversized filter-packs (the farther the formation is from the probe, the fewer counts/second received at the detector); a logging speed that outpaces the tool's sampling capability will skew the log's output; well construction materials can affect the gamma intensity measured by the probe, either increasing the counts/second because of radioactive minerals in construction materials (e.g., bentonite seal) or dampening counts/second (steel casing versus pvc casing).

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The most accurate interpretation of the gamma log is made when these details are considered and the log is supplemented with other geophysical logs and drilling reports.

~~2.4.6.2~~2.1.6.2 Induction Resistivity Logs

Electromagnetic induction resistivity logs are commonly used in plastic-cased boreholes since their operation does not require contact with the formation or the presence of a conductive fluid in the borehole. While the tool actually measures the electrical conductivity of the formation, its inverse (resistivity) is traditionally presented as the logging product.

The induction probe relies on two coils, one to transmit alternating current into the surrounding formation and a second coil to receive the return signal. As the probe passes through the well, the transmitted alternating current induces eddy currents in the formation that form a secondary magnetic field that in turn induces a voltage in the receiving coil. The received signal is amplified, converted to direct current, and transmitted up the cable to the logger, where it is manipulated to provide a record of resistivity (ohm-m) versus depth.

The electrical conductivity of a porous formation is a function of the combined electrical conductivity of the matrix material and the pore fluid. The resistivity plotted on the log is the inverse of the average conductivity of a constantly varying volume of material surrounding the probe. The volume of investigation depends partly on the nature of the formation material being investigated, but mostly on coil spacing, which varies between different manufacturers. Most induction probes investigate a sphere less than about 60 inches in diameter and are designed to be relatively insensitive to materials within a few inches of the sonde or probe axis.

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Induction logging provides hydrogeologists with a mechanism for making resistivity measurements in wells where this information was not collected during drilling. Since formation resistivity is affected by the porosity, permeability, and clay content of the formation and by the dissolved solids concentration of the water within the formation, its potential applications in studies of freshwater aquifers such as the Ogallala Aquifer would be expected to be numerous. In practice, however, its application is limited because the tool is most responsive to small changes in resistivity in low-resistivity environments. Best results are achieved in formations with resistivities less than about 200 ohm-m. Bulk resistivity in the Ogallala Aquifer is routinely greater than 200 ohm-m. Despite this limitation, the tool can still produce important subsurface information, particularly when paired with the natural gamma log. Some of the more common

uses of the induction resistivity include locating freshwater/saltwater interfaces, saltwater intrusion monitoring, delineation of bed boundaries, water quality mapping (quantitative delineation is possible using empirical relationships established with sufficient laboratory data), and tracking of both conductive and non-conductive contaminant plumes.

The general concept for interpretation of the induction resistivity log in unconsolidated, granular freshwater aquifers such as the Ogallala Aquifer is that highest resistivities are usually associated with clean quartz sands saturated with low-TDS water and lower resistivities occur in finer-grained, clayey sediment. The resistivity recorded on the log is an apparent resistivity measurement or bulk measurement that includes the effect of all materials in the electrical path between transmitter and receiver. Upon development of a reliable formation factor, the bulk resistivity measurement can be corrected and used to calculate the resistivity of the formation water, which has many uses in water quality evaluation. Accurate interpretation of the resistivity log requires that extraneous effects be considered. Anything that affects water chemistry around the well can have effect on the resistivity measurement. Introduction of foreign fluids to the formation such as invasion of drilling fluids during well drilling and impacted ~~ground water~~groundwater from contaminated sites can have effect. Other common influences include the degree of saturation in the formation's pore space, bed thickness, and presence of conductive objects used in well construction.

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~~2.4.6.3~~2.1.6.3 Logging Equipment

Geophysical logging was accomplished using digital wire-line equipment manufactured by Mount Sopris Instrument Co., Inc. of Golden, Colorado. The logging probes (2PGA-1000 natural gamma and 2PIA-1000 induction resistivity) were connected to a 4MXC-1000 winch with ⅛-inch single-conductor cable used to transmit log data to a MGX II log acquisition console for processing (MS-Log log acquisition software). The logger was operated with a Windows-based PC and the entire system was powered with a portable generator.

Details on the 2PGA-1000 gamma probe are summarized in the accompanying table. ~~Approximately 90% of the radiation measured by the probe originates within the first 6-12 inches of the formation being investigated.~~

2PGA-1000 (Natural Gamma, SP, Single Point Resistance)

Length	79.5 cm (31.3")
Diameter	41 mm (1.63")
Weight	3.2 Kg (7 lbs)
Pressure Rating	13,790 kPa (2000 PSI)
Operating Temperature	10 - 70°C (14 - 120°F)
Sensor (Detector)	Na(tl) scintillation 22.2 mm dia. x 76.2 mm long (0.875 x 3")
Measurement Range	0 - 100,000 CPS gamma ± 1,500 mV SP 1 - 500 Ohms SPR
Accuracy	± 1% of full scale
Resolution	0.02% of full scale

Details on the 2PIA-1000 induction probe are summarized in the accompanying table. The coil array on the induction probe is designed to be insensitive to materials at a radial distance of less than about four inches from the sonde. Vertical resolution of the tool is approximately two feet. The volume of investigation is similar to that of a 16-inch normal resistivity probe.

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2PIA-1000 Electromagnetic Induction

Length	158 cm (62.2")
Diameter	39 mm (1.5")
Weight	2.7 Kg (6 lbs)
Pressure Rating	10500 kPa (1500 PSI, higher pressure housing avail)
Operating Temperature	-20 to 50°C (6 - 122°F)
Sensor (Detector)	Magnetic-induced electric field coils @ 25 & 50 cm
Measurement Range	0 -10,000 mS/Meter
Accuracy	5% of full scale
Resolution	0.02% of full scale

~~2.4.6.4~~2.1.6.4 Logging Procedure

~~The~~ ~~T~~three deep wells (MWQ-2, MWQ-20, and MWQ-22) that are ~~located~~ screened in the Chinle Formation were selected based on their total depths and ~~dispersion~~ lateral distribution across Melrose AFR. Two shallow wells (M117MW001 and M117MW004) scheduled for abandonment were also logged. The following procedure was followed for each of the wells that were geophysically logged:

- The gamma probe was connected to the logging unit, centered over the well, and referenced to the well's top of casing. The probe was cycled to the bottom of the well

(logger TD) and this measurement was compared to the physical TD measurement previously recorded. The probe was then retrieved from the hole and 'logged up' (geophysical data collected only while logging up the hole). Logging speed was 10-12 feet/minute. The wire-line was cleaned (rinse/~~liquinox~~Liquinox wash/rinse/isopropyl alcohol wipe) as the probe was retrieved from the hole. After logging, the probe was disconnected and similarly cleaned.

- The induction logging run was similarly conducted, except that a 10-15 minute temperature stabilization period was allowed for the tool while at the bottom of the well.
- Raw logging data (".las" and ".rd" data files) generated by the MS-Log acquisition software was imported into WellCAD, a Windows-based well management software package, and then processed.

~~2.4.6.5~~2.1.6.5 Quality Assurance/Quality Control

Quality control was achieved primarily by following uniform logging procedure from well to well. Key practices included the use of the same logging equipment and tools throughout the logging project, maintaining consistent logging speed (10-12 feet/minute), and maintaining consistent logging direction (all wells were logged 'up'). Other relevant practices included careful positioning of the probes to a consistent reference point (top of well casing) and removing slack from the wire-line cable to measure true TD. The induction resistivity tool was also calibrated at the start of each day of logging (the gamma tool does not need this).

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Depth accuracy was checked using two methods. Well depths, manually measured using an electronic water level indicator, were compared to the well depths recorded by the geophysical logger. Good agreement between the two measurements was observed as differences seldom exceeded 0.10 feet. An internal check was also made by comparing the logger's depth display to a mark on the wire-line that was referenced to starting and finishing points. Depth error was routinely less than 0.2 feet.

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3.0 REGULATORY CRITERIA

To determine whether potential site-related contaminants exceed ~~ground water~~groundwater screening guidelines the following procedure will be prioritized as follows:

1. Water Quality Control Commission (WQCC) NMAC Title 20 Environmental Protection, Chapter 6 Water Quality, Part 2 Ground and Surface Water Protections, Section 20.6.2.3103 Subsections A, B, and C values will be compared with the *United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels for Drinking Water (primary and secondary).* The lower value for either of these lists will be applied per analyte.
2. In the absence of a limit under the WQCC or USEPA Drinking Water standards, screening levels for tap water as published in the NMED *Technical Background Document for Development of Soil Screening Levels, Revision 5 (NMED SSLs)(December 2009)* would be applied.
3. In the event that the above lists do not have a value for a contaminant of concern, values found in the *USEPA Regional Screening Levels for Contaminants at Superfund Sites (RSLs) (May 2010)* would be used for evaluation.

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The ~~ground water~~groundwater screening guidelines are included on ~~Table 2, 3, and 4 and on all summary tables in Appendix C~~all appropriate tables. Exceedances of ~~ground water~~groundwater screening guidelines are highlighted in red.

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4.0 GROUNDWATER MONITORING RESULTS

4.1 Field Water Quality Measurements

As requested by NMED, this report is written and organized in general accordance with the NMED Position Paper General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003. As such, limited to no discussion is provided below as tables "*summarizing … field water quality measurements can be substituted for this section.*" Applicable data is included in **Table 3** and **Table 4**.

~~2.5~~4.2 ~~Ground Water~~Groundwater Elevation, Gradient and Flow Velocity

A comprehensive round of water levels was collected from the Semiannual SWMU ~~Ground Water~~Groundwater Monitoring Network and Annual ~~Ground Water~~Groundwater Monitoring Network by TRINITY between May 3, 2011 and May 1~~6~~8, 2011 (Spring 2011 Sampling Event) and September 26, 2011 and October 3, 2011 (Fall 2011 Sampling Event). Recent and historic ~~ground water~~groundwater elevations and trends are summarized in **Table ~~5~~2**. Three ~~ground water~~groundwater flow maps are presented, in chronological order, as part of this report:

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1. Figure 5 - Median ~~ground water~~groundwater flow direction based on data collected and analyzed by the USGS between 2002 and 2003 (Langman, 2004);
2. Figure 8 - ~~Ground water~~Groundwater flow direction based on data collected by TRINITY between May 3, 2011 and May 1~~6~~8, 2011.
3. Figure 9 - ~~Ground water~~Groundwater flow direction based on data collected by TRINITY between September 26, 2011 and October 3, 2011.

Water-level contours for the Southern High Plains Aquifer indicate two ~~ground water~~groundwater flow systems – local and regional (Figures 5, 8, and 9). Locally, in southwest portions of Melrose AFR, ~~ground water~~groundwater flows northeast from the Mesa to the Portales Valley. ~~Ground water~~Groundwater flow is southeast and east in the Portales Valley. This corresponds with the regional general flow direction for the Melrose AFR vicinity (Hart, 1985). A direct connection between the structural surface of the Chinle Formation confining unit

and the direction of ~~ground water~~groundwater flow is evident. Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day. The hydraulic conductivities for wells in the regional flow system have not been determined. The ~~ground water~~groundwater gradient and flow velocities are summarized in the table below.

	gradient (ft/ft)		velocity (ft/y) [2]		
	local	regional	local		regional
			min	max	
1/1/2003 [1]	0.011	0.001	0.016	1.17	---
1/16/2009	0.015	0.001	0.022	1.60	---
10/25/2010	0.011	0.002	0.016	1.17	---
5/3/2011	0.014	0.002	0.020	1.49	---
9/26/2011	0.014	0.002	0.020	1.49	---

[1] The January 2003 ~~ground water~~groundwater flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).
[2] Darcy's formula: V = KI/Ø where V = ~~ground water~~groundwater velocity in ft/d; K = aquifer hydraulic conductivity in ft/d; I = ~~ground water~~groundwater gradient in ft/ft; Ø = effective porosity. [3] The effective porosity is estimated to be 25 percent (Fetter, 1994).

It is not possible to calculate the flow velocity for ~~ground water~~groundwater in the vicinity of the Portales Valley (regional flow system) due to a lack of data~~, i.e.~~ sucha as~~.~~ hydraulic conductivities. ~~Based on the limited data from the Phase I RFI and the increase in larger irrigation wells in the Portales Valley it would appear that the hydraulic conductivities increase to the north. However, as the hydraulic conductivities increase to the north the ground water~~groundwater gradient greatly decreases. Assuming a hydraulic conductivity of 1.0 ft/day the flow velocity for ground water~~groundwater in the vicinity of the Portales Valley is likely to be on the same range as ground water~~groundwater in the local flow system.~~

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~~2.6~~4.3 Well Condition Inspection/Maintenance

The condition of the wells in the network, based on the most current inspection, is summarized in Table 1. As discussed, maintenance activities were undertaken during the Fall 2011 sampling event in conjunction with well abandonment activities. However, due to inclement weather it was not possible to reinstall the bollards at well cluster MWQ-18/19, MWQ-20, or MAO1MW004. However, fresh fill has been placed under all well pads with noted erosion. The bollards will be reinstalled during 2012 sampling events.

It had previously been noted by TRINITY that MWL-6 had been open and that it appeared that

silt, and possibly cattle feces/hair had accumulated in the bottom of the well. Licensed well driller Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on May 17, 2011 to redevelop the well. The well was redeveloped by evacuating the well column with a steel bailer operated from a pump repair truck. The well was bailed for approximately one hour, until all silt/sediment had been removed from the bottom of the well case. The well was then pumped continuously by TRINITY until clear non-turbid water was produced. Subsequent to sampling activities the well head was properly secured. Additional wells previously identified as open were also properly secured. They included MWQ-8, MWQ-13, MWL-4, MWL-5, and MWL-10.

All accessible wells were surveyed on December 4, 2012. The results and details of the survey will be submitted to Cannon AFB under separate cover for submittal to NMED. Since TRINITY had the new survey data available prior to finalizing this report, TRINITY included the new top of casing elevations, well locations, etc. in associated tables, ~~and discussions~~ and re-created all appropriate figures that utilize this information.

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In general, the condition of the Semiannual SWMU ~~Ground Water~~Groundwater Quality Network and Annual ~~Ground Water~~Groundwater Quality Network is adequate for ~~ground water~~groundwater quality sampling activities.

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~~2.7~~4.4 Well Abandonment Activities

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon the six wells (M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001). TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer. Monitoring well abandonment was conducted in accordance with *NMED, Ground Water Discharge Permit, Monitoring Well Construction, and Abandonment Guidelines, Revision 1.0, July 2008* (New Mexico Environment Department, 2008) and *Well Driller Licensing; Construction, Repair and Plugging of Wells, adopted August 31, 2005*, 19.27.4 New Mexico Administrative Code (NMAC) (New Mexico Administrative Code, 2005).

The wells were abandoned by installing tremie pipe to the bottom of the well and tremie-grouting with neat Portland cement. The wells were filled with grout until overflow occurred, and then the tremie pipe was removed from the well. If the grout settled back into the well, it was continually topped off until the grout stabilized within a few feet of ground surface. Once grouting was complete, the well-pads, bollards, and protective metal casings were removed for proper disposal. The well pipe was cut-off just below ground surface and the land surface was restored as appropriate.

~~2.8~~4.5 Geophysical Logging

The geophysical logging data collected is intended to enhance characterization of geology within the Ogallala and Chinle Formation at Melrose AFR. The geophysical logs are presented in **Appendix D~~F~~** with the raw data. Comparison of the boring log (Langman, 2004) for MWQ-2 and the gamma and induction resistivity logs for this well allows for the determination of the contact between the Ogallala Formation and the Chinle Formation based solely on gamma and induction resistivity logs for other wells.

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Four generalized cross-sections utilizing the logging data for determination of contacts have been constructed for Melrose AFR (Figure 10). It should be noted that our geologic interpretations are based almost primarily on the geophysical logging data. Supplemental data in the form of geologic surface interpretations by Langman (2004) were also utilized in the creation of the generalized cross sections. TRINITY has, to date, been unable to acquire the geologist's drilling logs for ~~the~~the ~~three~~ deep Chinle wells ~~(~~MWQ-19~~2~~, MWQ-20, and MWQ-22~~)~~ at Melrose AFR.

~~3.0~~ 5.0 GROUNDWATER CHEMICAL ANALYTICAL DATA~~MONITORING RESULTS~~

Although this report utilizes available historical data (~~ground water~~groundwater elevations, hydraulic conductivities, water quality data, etc.) gathered since 1994, the focus of this report is on data collected in the most recent one-year reporting period (2011). Much of the information presented in this report is in the form of tables, charts, and diagrams. Limited discussion accompanies each section since most illustrations do not require detailed explanation. This report represents the second complete Annual Water Quality Report for Melrose AFR. A summary of analytical and field data from the most recent sampling event are provided in **Table 2** through **6**~~, 3, and 4.~~ ~~Available historic data is summarized in Appendix C~~ and includes parameter summary tables and trend plots. Laboratory analytical data is included in **Appendix ~~D~~C**. In accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) split samples were collected for submittal to an alternative laboratory. The analytical data for the split samples are also included in Appendix ~~D~~C.

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~~To determine whether potential site-related contaminants exceed ground water screening guidelines the following procedure will be prioritized as follows:~~

4. ~~Water Quality Control Commission (WQCC) NMAC Title 20 Environmental Protection, Chapter 6 Water Quality, Part 2 Ground and Surface Water Protections, Section 20.6.2.3103 Subsections A, B, and C values will be compared with the *United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels for Drinking Water (primary and secondary)*. The lower value for either of these lists will be applied per analyte.~~
5. ~~In the absence of a limit under the WQCC or USEPA Drinking Water standards, screening levels for tap water as published in the NMED *Technical Background Document for Development of Soil Screening Levels, Revision 5 (NMED SSLs)(December 2009)* would be applied.~~
6. ~~In the event that the above lists do not have a value for a contaminant of concern, values found in the *USEPA Regional Screening Levels for Contaminants at Superfund Sites (RSLs) (May 2010)* would be used for evaluation.~~

~~The ground water screening guidelines are included on Table 2, 3, and 4 and on all summary tables in Appendix C. Exceedances of ground water screening guidelines are highlighted in red.~~

~~New Mexico Administrative Code 20.6.2.3103 states that standards shall apply to the dissolved portion of the contaminants specified, with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.~~

~~However, in an October 30, 2001 Position Paper, "Use of Low Flow and Other Non-Traditional Sampling Techniques for RCRA Compliant Groundwater Monitoring" NMED states that RCRA and the New Mexico WQCC have different requirements for the collection of groundwater samples for metals analyses (NMED, 2001). RCRA requires unfiltered inorganic groundwater samples in an attempt to emulate drinking water maximum contaminant levels (MCLs). However, the NMED Groundwater Quality Bureau (GWQB), which derives its regulatory authority from the WQCC regulations, requires filtered samples. This statement seems to contradict NMAC. Therefore both were collected.~~

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The presence of metals in ~~ground water~~groundwater samples collected from monitoring wells can be natural, anthropogenic in origin, or both. Metals are common, naturally occurring, ubiquitous elements in sediments such as the Ogallala Formation, and in some instances may naturally exceed applicable standards. Elevated metals in ~~ground water~~groundwater samples may be an artifact of the well installation process in that formation damage incurred during drilling may not be sufficiently repaired and/or the well may not be completely developed, which result in elevated turbidity during well sampling. Additionally, and sometimes unavoidably, the targeting of less desirable strata, i.e., placing the screen intake opposite clayey sediment, can also result in the introduction of colloidal clay into samples, which may also produce high metals results. Sampling protocol can have significant effect on measured concentrations.

It is TRINITY's experience that for ~~ground water~~groundwater collected from wells installed in clastic aquifers, such as this one, comparison of total and dissolved metals results is essential.

Large discrepancies between total and dissolved results for ~~ground water~~groundwater collected in this type of environment suggests 'artificial' influence from the well. When similar concentrations for total and dissolved metals are reported during a single sampling event the total result is likely an accurate reflection of the metal concentration in ~~ground water~~groundwater moving through the aquifer, and would suggest that the reported concentrations are ambient in origin, waste related, or both. To date, insufficient data has been collected to accurately determine a relationship between turbidity and elevated metals concentrations in total and dissolved ~~ground water~~groundwater samples.

Previous sampling events conducted at Melrose AFR have included dissolved (filtered) metals results. In the majority of sampling conducted prior to January 2010 only dissolved metals results appear to have been reported. NMED has previously accepted the use of dissolved metals data at Melrose AFR to support the argument that increased turbidity may result in increased metals concentrations. Documents where data has previously been submitted and accepted include but are not limited to:

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- Phase I RCRA Facility Investigation for Melrose Air Force Range, 1996;
- RCRA Facility Investigation Report Addendum, 2003;
- Final Report, Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, 2009.

Although current direction from NMED is for the collection and use of total or non-filtered inorganic analytical results, it is TRINITY's professional opinion and is our suggestion to the USAF, that they continue to collect total and dissolved analysis for the inorganic analytes until a trend can be established.

Based on data validation of the 2011 sampling events, the data were determined to be valid and achieved data completeness. The Quality Assurance Summary Report and data validation reports are provided in Appendix B. All analytical data for the 2011 sampling events were evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). All data was determined to be valid and achieved data completeness.

~~3.1~~5.1 ~~Ground Water~~Groundwater Quality

~~3.1.1~~5.1.1 Background/General Water Quality

Based on major ion chemistry, temperature, specific conductance, and TDS, etc. the USGS identified three sources of different ~~ground water~~groundwater in the immediate vicinity of the Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). However, water from the local flow system near the Mesa and water in the regional flow system in the Portales Valley were determined to be of somewhat similar quality. Based on the USGS findings, ~~ground water~~groundwater in the vicinity of the Melrose AFR Impact Area is a different flow system and not the same quality water as the Regional Flow System. The USGS inferred that the difference in water quality is likely attributable to the upward potential/migration of ~~ground water~~groundwater from the Chinle Formation. Using the same geochemical theory and comparison technique, TRINITY averaged all sodium/chloride concentration data available from 2004 to present. The data is plotted below (log-log scale):

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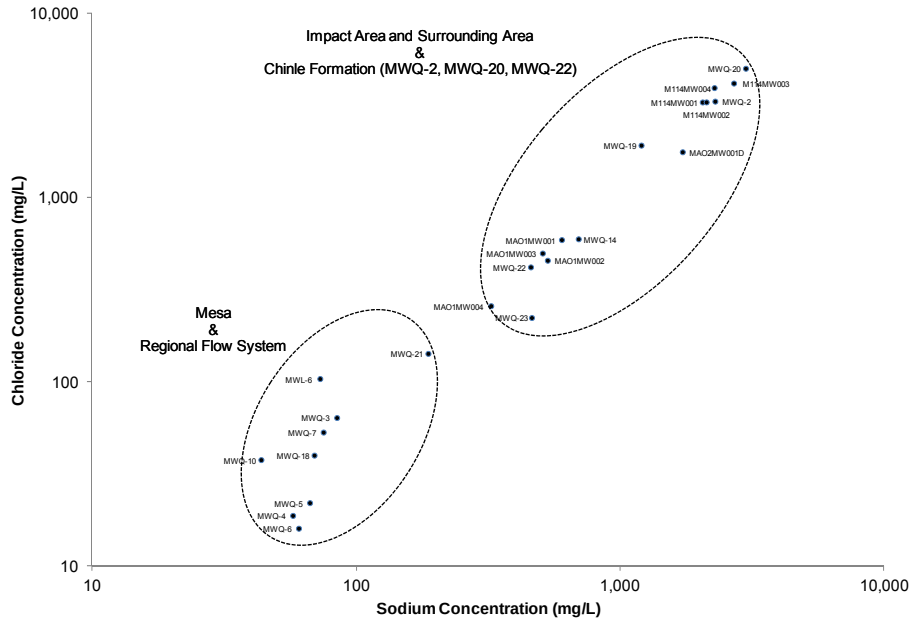

As demonstrated in the plot above, the data plotted very similar to that of the USGS, indicating a higher quality of water in the Mesa area and the Regional Flow System (Portales Valley) than the

local flow system beneath the Impact Area. Based on the previously approved work plan (~~Tidewater~~Tidewater Inc.~~ 2010)~~(Tidewater Inc., 2010) and recent direction by NMED, TRINITY will ~~install~~propose the installation of a new background monitoring well upgradient of the SWMUs adjacent to MWQ-10, in a separate Well Installation Work Plan.

~~Based on previous discussions and agreements with NMED a new background well for the SWMUs was proposed to be installed adjacent to MWQ-10. However, MWQ-10 is located on a portion of Melrose AFR (the Mesa) where ground water is not mixing with the underlying Chinle Formation, as previously discussed. Based on ground water geochemistry data and the ground water flow direction, ground water collected from MWQ-8 is upgradient of the SWMUs and the Impact Area and is located on a portion of Melrose AFR that would provide a more representative ground water quality sample for the Impact Area. Wells MWQ-10 and/or MWQ-7 would be likely candidates for background water quality for non-mixing ground water (Mesa and Regional Flow System). Both wells are upgradient of the SWMUs and the Impact Area. Background water quality based on data collected from these three wells is summarized below. Background water quality data from MWQ-8 is based on data presented by USGS (2004), data from MWQ-7 and MWQ-10 is based on data presented in this report.~~

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~~**General Background Water Quality**~~

-	~~Impact Area (mixing)~~	-	~~Mesa & Regional Flow System (non-mixing)~~	
-	~~MWQ8~~	-	~~MWQ7~~	~~MWQ10~~
~~Conductivity~~	~~3,190~~	-	~~0.87~~	~~0.64~~
~~Dissolved Oxygen~~	~~2.5~~	-	~~6.90~~	~~8.03~~
~~pH~~	~~7.6~~	-	~~7.57~~	~~7.09~~
~~Temperature~~	~~18.2~~	-	~~17.43~~	~~17.82~~
~~Turbidity~~	~~---~~	-	~~0.22~~	~~0.84~~
-	-	-	-	-
~~Aluminum (ug/L)~~	~~---~~	-	~~<D.L.~~	~~<D.L.~~
~~Antimony (ug/L)~~	~~---~~	-	~~<D.L.~~	~~0.01~~
~~Calcium (ug/L)~~	~~51,000~~	-	~~57,675~~	~~55,229~~
~~Iron (ug/L)~~	~~---~~	-	~~16.7~~	~~8.0~~
~~Magnesium (ug/L)~~	~~21,000~~	-	~~24,700~~	~~31,414~~
~~Manganese (ug/L)~~	~~---~~	-	~~0.7~~	~~0.5~~
~~Sodium (mg/L)~~	~~662~~	-	~~76.75~~	~~24.80~~
~~Chloride (mg/L)~~	~~445~~	-	~~53~~	~~38~~
~~Sulfate (mg/L)~~	~~600~~	-	~~159~~	~~52~~
~~Total Dissolved Solids (mg/L)~~	~~1,900~~	-	~~514~~	~~397~~

~~<D.L. indicates value below detection limit; --- indicates parameter not analyzed for or data was unavailable.~~

~~TRINITY submitted an updated *Ground Water Monitoring Project Work Plan*~~ (Trinity Analysis & Development Corp., 2011)~~(Trinity Analysis & Development Corp, 2011) in which it was recommended prior to the expenditure of additional funds to install a new monitoring well, that MWQ-23 be considered. Based on site specific geology this existing cattle stock supply well located approximately 3,100 feet west of MWQ-8, appears to be able to provide adequate background data for the local flow system in the Impact Area~~

~~The new background well (MWQ-23) was sampled during both the Spring 2011 and Fall 2011 sampling events. The data is summarized in Table 2, 3, and 4. The laboratory analytical data is provided in Appendix D. Based on major ion chemistry, temperature, specific conductance, and TDS, etc. it appears that the water quality associated with MWQ-23 is similar to ground water associated with the local flow system in the Impact Area. Due to the variability of mixing between the Chinle and Ogallala Aquifer above it may be difficult to locate a well upgradient of the Impact Area, that is not located within portions of the range that are actively being bombed, and is located on a portion of the range where water from the Chinle is leaking upward and mixing with the Ogallala Aquifer. MWQ-23 would therefore appear to be a viable option as a background well for the collection of ground water quality samples. General background water quality from MWQ-8 (local flow system in the Impact Area) and MWQ-7 and MWQ-10 (Mesa and Regional Flow System) is compared to MWQ-23 in the table below.~~

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~~General Background Water Quality MWQ-23~~

	~~Impact Area (mixing)~~	~~-~~	~~Mesa & Regional Flow System (non-mixing)~~		~~-~~	~~Proposed Background Well for Impact Area~~
~~-~~	~~MWQ8~~	~~-~~	~~MWQ7~~	~~MWQ10~~	~~-~~	~~MWQ-23~~
~~Conductivity~~	~~3,190~~	~~-~~	~~0.87~~	~~0.64~~	~~-~~	~~2.2~~
~~Dissolved Oxygen~~	~~2.5~~	~~-~~	~~6.9~~	~~8.03~~	~~-~~	~~0.18~~
~~pH~~	~~7.6~~	~~-~~	~~7.57~~	~~7.09~~	~~-~~	~~8.09~~
~~Temperature~~	~~18.2~~	~~-~~	~~17.43~~	~~17.82~~	~~-~~	~~19.71~~
~~Turbidity~~	~~---~~	~~-~~	~~0.22~~	~~0.84~~	~~-~~	~~1.6~~
~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~
~~Aluminum (ug/L)~~	~~---~~	~~-~~	~~<D.L.~~	~~<D.L.~~	~~-~~	~~<D.L.~~
~~Antimony (ug/L)~~	~~---~~	~~-~~	~~<D.L.~~	~~0.01~~	~~-~~	~~<D.L.~~
~~Calcium (ug/L)~~	~~51,000~~	~~-~~	~~57,675~~	~~55,229~~	~~-~~	~~14,550~~
~~Iron (ug/L)~~	~~---~~	~~-~~	~~16.7~~	~~8~~	~~-~~	~~0~~
~~Magnesium (ug/L)~~	~~21,000~~	~~-~~	~~24,700~~	~~31,414~~	~~-~~	~~9,715~~
~~Manganese (ug/L)~~	~~---~~	~~-~~	~~0.7~~	~~0.5~~	~~-~~	~~73~~
~~Sodium (mg/L)~~	~~662~~	~~-~~	~~76.75~~	~~24.8~~	~~-~~	~~48.5~~

~~Chloride (mg/L)~~	~~445~~	~~-~~	~~53~~	~~38~~	~~-~~	~~224~~
~~Sulfate (mg/L)~~	~~600~~	~~-~~	~~159~~	~~52~~	~~-~~	~~410~~
~~Total Dissolved Solids (mg/L)~~	~~1,900~~	~~-~~	~~514~~	~~397~~	~~-~~	~~1365~~

~~3.1.2~~5.1.2 ~~Suitability of the Data~~

~~All analytical data was evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004) and the project specific Quality Assurance Project Plan. The eDATApro Data Validation Reports are included in Appendix E. Two Sample Delivery Groups from the Spring 2011 sampling event and one from the Fall 2011 sampling event were evaluated by eDATApro and include the following:~~

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~~**Sample Delivery Groups – Spring 2011**~~

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Annual Ground Water Quality Network	211050608	TB1	21105060803	5/5/2011	9:26:00 AM
		TB2	21105060804	5/5/2011	9:26:00 AM
		MAO2MW001D	21105060801	5/5/2011	12:23:00 PM
		M114MW004	21105060802	5/5/2011	3:16:00 PM
		TB4	21105060808	5/6/2011	12:00:00 AM
		TB5	21105060809	5/6/2011	12:00:00 AM
		M114MW002	21105060805	5/6/2011	11:35:00 AM
		EB1	21105060806	5/6/2011	12:30:00 PM
		M114MW003	21105060807	5/6/2011	2:30:00 PM
		TB6	21105060814	5/9/2011	12:00:00 AM
		M114MW001	21105060815	5/9/2011	9:55:00 AM
		M114MW001-DUP	21105060816	5/9/2011	9:55:00 AM
		MAO1MW001	21105060810	5/9/2011	2:16:00 PM
		MAO1MW001-MS	21105060811	5/9/2011	2:16:00 PM
		MAO1MW001-MSD	21105060812	5/9/2011	2:16:00 PM
		TB8	21105060817	5/10/2011	12:00:00 AM
		TB7	21105060820	5/10/2011	12:00:00 AM
		MAOMW004	21105060818	5/10/2011	11:11:00 AM
		MAOMW003	21105060819	5/10/2011	1:20:00 PM
		TB9	21105170903	5/16/2011	12:00:00 AM
		MAO1MW002	21105170901	5/16/2011	9:35:00 AM
		MWQ23	21105170902	5/16/2011	11:10:00 AM

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual Ground Water Quality Network	211050426	MWQ-3	21105042601	5/3/2011	9:15:00 AM
		MWQ-4	21105042602	5/3/2011	10:18:00 AM
		MWQ-5	21105042603	5/3/2011	11:57:00 AM
		MWQ-5-DUP	21105042604	5/3/2011	11:57:00 AM
		MWQ-6	21105042605	5/3/2011	1:12:00 PM
		MWQ-7	21105042606	5/3/2011	1:53:00 PM
		MWQ-10	21105042607	5/3/2011	3:23:00 PM
		MWQ-10-MS	21105042608	5/3/2011	3:23:00 PM
		MWQ-10-MSD	21105042609	5/3/2011	3:23:00 PM
		MWQ-2	21105042611	5/5/2011	9:26:00 AM
		MWQ-22	21105042612	5/11/2011	11:01:00 AM
		MWQ-21	21105042613	5/11/2011	1:05:00 PM
		MWQ-19	21105042614	5/12/2011	9:50:00 AM
		MWQ-18	21105042615	5/12/2011	12:40:00 PM
		MWQ-14	21105042616	5/13/2011	12:31:00 PM
		MWQ14-MS	21105042617	5/13/2011	12:31:00 PM
		MWQ14-MSD	21105042618	5/13/2011	12:31:00 PM
		MWQ-20	21105042620	5/17/2011	1:22:00 PM
		MWQ-20 DUP	21105042621	5/17/2011	1:22:00 PM
		EB2	21105042622	5/18/2011	10:30:00 AM
		MWL6	21105190401	5/18/2011	2:30:00 PM

~~**Sample Delivery Groups – 2011 Semiannual Fall**~~

	SDG	Sample ID	Lab ID	Sample Date	Sample Time		Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual	2110928048	MA01MW001	21109280401	9/27/2011	9:33:00		TB-4	21109280413	9/29/2011	8:40:00
		MA01MW003	21109280402	9/27/2011	12:21:00 PM		MA01-MW004	21109280411	9/29/2011	11:10:00
		MA01MW003-MS	21109280403	9/27/2011	12:21:00 PM		MA01-MW002	21109280412	9/29/2011	1:06:00 PM
		MA01MW003-MSD	21109280404	9/27/2011	12:21:00 PM		M114MW004	21110010501	9/30/2011	10:00:00
		MA01MW003-DUP	21109280406	9/27/2011	12:21:00 PM		TB-5	21110010503	9/30/2011	10:00:00
		TB-1	21109280405	9/27/2011	4:33:00 PM		M114MW001	21110010502	9/30/2011	12:36:00 PM
		MA02 MW001D	21109280407	9/28/2011	10:28:00		EB-1	21110010504	10/3/2011	8:00:00
		FD-1	21109280408	9/28/2011	10:28:00		TB-6	21110010507	10/3/2011	8:00:00
		TB-2	21109280409	9/28/2011	10:28:00		M114MW002	21110010505	10/3/2011	9:32:00
		MWQ-23	21109280410	9/29/2011	8:40:00		M114MW003	21110010506	10/3/2011	11:46:00

~~3.1.2.1~~5.1.2.1 ~~Holding Times~~

~~Review of the sample collection and analyses dates involved comparing the COCs, the chemical results summary forms, and the raw data forms for accuracy, consistency, and holding time compliance. All samples were prepared and analyzed within the required holding time criteria with the exception of the following:~~

- ~~**2011 Annual Spring (SDG 211050426)**~~
  1. ~~MWQ-3 was received after expiration of the 24 hour holding time for Chromium VI. MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, and MWQ-7 were received within the 24 hour holding time but were not processed through receiving prior to expiration of the holding time. Accordingly, the sample results were qualified as estimated "J" or estimated non-detect "UJ."~~
- ~~**2011 Annual Fall (SDG 2110928048)**~~
  1. ~~Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.~~
  2. ~~Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).~~

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~~3.1.2.2~~5.1.2.2 ~~Blank Samples~~

- ~~**2011 Annual Spring (SDG 211050426)**~~
  1. ~~Measurable quantities of arsenic (total), cadmium (total), and manganese (total) were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
  2. ~~Measurable quantities of antimony (total) and lead (total) were observed at a concentration less than the laboratory RL in one or more initial calibration blank/continuing calibration blank (ICB/CCB) samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.~~
  3. ~~A measurable quantity of (total) cadmium was observed at a concentration less than the laboratory RL in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
  4. ~~Measurable quantities of (total) arsenic, cadmium, copper, and manganese were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.~~
  5. ~~Measurable quantities of arsenic (dissolved) and cadmium (dissolved) were observed at a concentration less than the laboratory RL in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
  6. ~~Measurable quantities of antimony (dissolved) and lead (dissolved) were observed at a concentration less than the laboratory RL in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.~~

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7. ~~A measurable quantity of cadmium (dissolved) was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
8. ~~Measurable quantities of cadmium (dissolved), copper (dissolved), manganese (dissolved), nickel (dissolved), and zinc (dissolved) were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.~~

- ~~**2011 Semiannual Spring (SDG 211050608)**~~

1. ~~A measurable quantity of acetone was observed at a concentration less than the laboratory RL in preparation blank sample MB945623. The laboratory qualified associated results with "B." This qualifier was removed from non-detect values. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
2. ~~A measurable quantity of nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory result of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.~~
3. ~~A measurable quantity of manganese (total) was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
4. ~~Measurable quantities of total analytes barium (total), copper (total), manganese (total), and zinc (total) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this~~

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~~delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.~~

5. ~~Measurable quantities of barium (dissolved) and cadmium (dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (dissolved). Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.~~
6. ~~A measurable quantity of barium (dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The barium (dissolved) result in sample EB1 was modified to non-detect (U) at the RL.~~
7. ~~Measurable quantities of aluminum (Dissolved), arsenic (Dissolved), cadmium (Dissolved), copper (Dissolved), and zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.~~

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- ~~**2011 Annual Fall (SDG 2110928048)**~~
  1. ~~An estimate concentration of acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.~~
  2. ~~Estimate concentrations of acetone and methylene chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.~~
  3. ~~Estimate concentrations of acetone and methylene chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.~~

4. ~~An estimate concentration of sodium (total) was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.~~
5. ~~Estimated concentrations of sodium (total) were observed in the CCBs bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and MA01-MW002. No estimated concentrations of this analyte were reported in these samples. No result qualifications were necessary.~~
6. ~~An estimate concentration of barium (total) was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.~~
7. ~~An estimate concentration of silver (total) was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.~~
8. ~~Estimate concentrations of manganese (total), nickel (total), and zinc (total) were reported in equipment rinsate blank sample EB-1. The laboratory results for manganese in samples M114MW002 and M114MW003 and nickel in sample M114MW002 were modified to non-detect (U) at the RL.~~

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~~3.1.2.3~~5.1.2.3 ~~Surrogate Compounds~~

- ~~**2011 Annual Spring (SDG 211050426)**~~
  ~~In accordance with the updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) VOCs and explosives are not part of the required analytical suite for Annual wells.~~

- ~~**2011 Semiannual Spring (SDG 211050608)**~~
  ~~Surrogate recoveries for all VOC and explosive samples were within evaluation criteria.~~

- ~~**2011 Annual Fall (SDG 2110928048)**~~

~~Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and, M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.~~

~~3.1.2.4~~5.1.2.4 ~~**Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)**~~

- ~~**2011 Annual Spring (SDG 211050426)**~~
  ~~All LCS/LCSD QC samples were within evaluation criteria.~~

- ~~**2011 Semiannual Spring (SDG 211050608)**~~
  ~~Recovery of target analyte HMX in the LCS/LCSD from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a "Q." This qualifier was removed during the validation review.~~

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- ~~**2011 Annual Fall (SDG 2110928048)**~~
  ~~All LCS/LCSD QC samples were within evaluation criteria.~~

~~3.1.2.5~~5.1.2.5 ~~**Field Duplicate Analysis**~~

~~Field duplicate sample pair results were within evaluation criteria (25 percent relative percent difference [RPD] or within ±two times the RL if either the sample or duplicate are less than five times the RL) for VOCs, and explosives duplicate sample pairs. Some metals parameters did not meet the field duplicate criteria. Analytical results for the field duplicate sample pairs are presented in the table below.~~

~~**Field Duplicate Analysis**~~

Chemical Name	Units	2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
		M114MW001 Result	Duplicate Result	RPD	MWQ-5 Result	Duplicate Result	RPD	MWQ-20 Result	Duplicate Result	RPD	MAO2MW001D Result	Duplicate Result	RPD
Aluminum	ug/L	60	64.5	7.2	60	60	0.0	261	285	8.8	60	78.9	**27.2**
Antimony	ug/L	4.03	4.03	0.0	4.03	4.03	0.0	20.3	4.8	**123.5**	3.98	3.98	0.0
Nickel	ug/L	19.7	20.7	5.0	0.96	0.96	0.0	0.96	0.96	0.0	1.43	1.82	**24.0**
Aluminum (Dissolved)	ug/L	77.6	60	**25.6**	60	60	0.0	60	60	0.0	60	60	0.0
Antimony (Dissolved)	ug/L	4.03	4.03	0.0	4.74	4.03	16.2	6	4.33	**32.3**	3.98	3.98	0.0
Arsenic (Dissolved)	ug/L	2.74	2.53	8.0	7.43	8.16	9.4	3.95	2.53	**43.8**	3.49	3.85	9.8
Nickel (Dissolved)	ug/L	19.1	19.6	2.6	0.96	0.96	0.0	0.96	0.96	0.0	2.14	1.58	**30.1**
~~Chromium VI~~	~~ug/L~~	~~2.8~~	~~2.8~~	~~0.0~~	~~2.8~~	~~2.8~~	~~0.0~~	~~2.8~~	~~2.8~~	~~0.0~~	~~3.3~~	~~6~~	~~**58.1**~~

~~3.1.2.6~~5.1.2.6

~~3.1.2.7~~5.1.2.7 ~~**Matrix Spike/Matrix Spike Duplicate Analysis**~~

~~The MS/MSD recoveries for inorganic compounds (calcium, magnesium, and sodium) with sample concentrations greater than four times the matrix spike concentration did not require evaluation or qualification. The data review guidelines established in the QAPP state that organic data (mercury) will not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of data was required. MS/MSD recoveries and RPDs that were outside control limits are listed in the following table.~~

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~~Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated "UJ".~~

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~~Recovery of numerous explosives analytes in the matrix spike and matrix spike duplicate fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.~~

~~**MS/MSD Summary**~~

Parameter	Limits		2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
			MAO1MW001			MWQ-10			MWQ-14			MAO2MW001D		
	Min	Max	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD
1,3,5-Trinitrobenzene	65	140	139.4	**148.7**	6.5	na	na	na	na	na	na	86.9	72.1	18.7
2,4,6-Trinitrotoluene	50	145	141.0	**147.6**	4.5	na	na	na	na	na	na	73.6	61.9	17.3
2,4-Dinitrotoluene	60	135	**147.2**	**154.3**	4.7	na	na	na	na	na	na	91.6	73.2	22.4
2,6-Dinitrotoluene	60	135	**153.9**	**162.5**	5.5	na	na	na	na	na	na	80.2	60.9	27.5
2-Nitrotoluene	45	135	**188.6**	**195.9**	3.8	na	na	na	na	na	na	72.5	60.8	17.6
3-Nitrotoluene	50	130	**157.1**	**164.1**	4.4	na	na	na	na	na	na	63.2	**46.9**	29.5
4-Amino-2,6-dinitrotoluene	55	155	142.6	151.8	6.2	na	na	na	na	na	na	63.1	**55.0**	13.7
4-Nitrotoluene	50	130	**163.9**	**171.5**	4.5	na	na	na	na	na	na	58.7	**44.3**	28.0
Calcium	80	120	90.0	100.0	10.5	**128.0**	116.0	9.8	**192.0**	**210.0**	9.0	**126.0**	98.0	25.0
Calcium	80	120	106.0	**64.0**	49.4	**56.0**	**126.0**	76.9	**178.0**	**164.0**	8.2	**202.0**	**208.0**	2.9
HMX	80	115	**124.0**	**131.0**	5.5	na	na	na	na	na	na	102.0	81.3	22.6
m,p-Xylene	75	130	**196.0**	**187.8**	4.3	na	na	na	na	na	na	**207.8**	**203.8**	1.9
Magnesium	80	120	88.0	**68.0**	25.6	**138.0**	116.0	17.3	**172.0**	**212.0**	20.8	**120.0**	**78.0**	42.4
Magnesium	80	120	82.0	**62.0**	27.8	**56.0**	**130.0**	79.6	**150.0**	**166.0**	10.1	**236.0**	**172.0**	31.4
Mercury	80	120	94.0	94.4	0.4	111.4	104.2	6.7	**79.6**	**76.2**	4.4	88.3	86.3	2.3
Mercury	80	120	91.6	94.4	3.0	109.8	104.2	5.2	**78.6**	81.4	3.5	84.9	86.1	1.4
Nitrobenzene	50	140	**155.7**	**159.2**	2.2	na	na	na	na	na	na	85.7	69.1	21.5
Sodium	80	120	**135.0**	**135.0**	0.0	101.0	103.5	2.4	**240.0**	**335.0**	33.0	**165.0**	**135.0**	20.0
Sodium	80	120	**160.0**	**-15.0**	241.4	88.0	98.0	10.8	**245.0**	**220.0**	10.8	**460.0**	**300.0**	42.1
Tetryl	20	175	**175.6**	**197.0**	11.5	na	na	na	na	na	na	45.4	32.3	33.7
Total Cyanide	80	120	93.4	95.0	1.7	**73.8**	**74.0**	0.3	**78.0**	**78.4**	0.5	98.6	98.2	0.4

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~~3.1.3~~5.1.3 Semiannual SWMU ~~Ground Water~~Groundwater Quality Network

This report represents the second complete Annual Water Quality Report for Melrose AFR. A summary of analytical and field data from the most recent sampling event is provided in Table 2~~, 3, and 4~~. Available historic data is summarized in Appendix C and includes parameter summary tables and trend plots. Laboratory analytical data is provided in ~~Appendix D~~**Table 3** and **4** and Appendix ~~E~~C. Discussions provided below are based on data collected during the current reporting period. As requested by NMED, this report is written and organized in general accordance with the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003*. As such, limited to no discussion is provided below as tables "*summarizing the groundwater and QA/QC chemical analytical data, applicable cleanup levels and modifications to the groundwater sampling program can be substituted for this section.*" Applicable tables are located below, in Appendix B. and on Table 2.

~~3.1.3.1~~5.1.3.1 SWMU 114

~~Ground water quality in the immediate vicinity of SWMU 114 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most~~

~~representative.~~ Of the analys~~c~~is performed, ~~no~~ VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were undetected or were detected at concentrations below applicable screening guidelines. A total of four parameters were detected above applicable~~the~~ ~~ground water~~groundwater screening guidelines during the 2011 Annual reporting period. A summary of the exceedances of ~~ground water~~groundwater screening guidelines is provided below:

SWMU 114														
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	M114MW001		M114MW002		M114MW003		M114MW004	
						Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	<D.L.	78	78.8	<D.L.	63.6	67	<D.L.	<D.L.
					Sep-11	100	<D.L.	85.3	<D.L.	**200.0**	<D.L.	110	<D.L.
Chloride	**250**	250	---	---	May-11	3,280	---	3,660	---	4,550	---	4,180	---
					Sep-11	3,060	---	3,130	---	3,920	---	3,970	---
Sulfate	600	**250**	---	---	May-11	2,140	---	2,130	---	2,460	---	2,110	---
					Sep-11	1,810	---	1,580	---	1,880	---	1,630	---
TDS	1,000	**500**	---	---	May-11	8,270	---	7,800	---	9,540	---	7,000	---
					Sep-11	7,640	---	7,610	---	9,870	---	9,500	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

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~~The reported concentrations for chloride, sulfate, and TDS are higher than that of the background well (MWQ-23). The higher concentrations at SMWU-114 are attributed to increased "mixing" of the ground water with the underlying Chinle Formation. MWQ-23 provides an adequate representation of background groundwater quality, however in this location less "mixing" appears to occur with the Chinle Formation. The higher concentrations of chloride, sulfate, and TDS are not believed to be associated with past disposal activities. Aluminum was detected above the screening guidelines; however, it was below the screening criteria in the filtered samples.~~

~~3.1.3.2~~5.1.3.2 SWMU 130

~~Ground water quality in the immediate vicinity of SWMU 130 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most representative.~~ Of the analys~~i~~es performed, ~~no~~ VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were undetected or were detected at concentrations below applicable screening guidelines. A total of five parameters were detected above applicable~~the~~ ~~ground~~

~~water~~groundwater screening guidelines. A summary of the exceedances of ~~ground water~~groundwater screening guidelines is provided below:

SWMU 130														
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004	
						Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	**276**	105	<D.L.	164	111	<D.L.	<D.L.	<D.L.
					Sep-11	84.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	May-11	<D.L.	<D.L.	**102**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	5.29	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	May-11	**651**	---	**473**	---	**537**	---	**269**	---
					Sep-11	**525**	---	**431**	---	**477**	---	**251**	---
Sulfate	600	**250**	---	---	May-11	704	---	544	---	616	---	352	---
					Sep-11	**564**	---	**514**	---	**524**	---	**329**	---
TDS	1,000	**500**	---	---	May-11	1,980	---	1,780	---	1,760	---	1,110	---
					Sep-11	**1,990**	---	**1,720**	---	**1,790**	---	**1,130**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

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~~The reported concentrations of chloride, sulfate, and TDS are similar to background water quality concentrations (MWQ-23). Aluminum was detected above the screening guideline in MAO1MW001 during the Spring 2011 sampling event; however, the concentration was below the screening criteria in the filtered sample. Additionally, during the Fall 2011 sampling event the concentrations were below the screening criteria for the total and dissolved samples. Antimony was detected above the screening guideline in MAO1MW002 during the Spring 2011 sampling event; however, antimony was not detected in the filtered sample. Additionally, antimony was not detected in the total and dissolved samples during the subsequent Fall 2011 sampling event.~~

~~3.1.3.3~~5.1.3.3 SWMU 131

~~Ground water quality in the immediate vicinity of SWMU 131 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most representative.~~ Of the analyse~~i~~s performed, ~~no~~ VOCs, explosives, hexavalent chromium, or cyanide were undetected or were detected at concentrations below applicable screening guidelines. A total of six parameters were detected above applicable~~the~~ ~~ground~~

~~water~~groundwater screening guidelines. A summary of the exceedances of ~~ground water~~groundwater screening guidelines is provided below:

SWMU 131							
						MAO2MW001D	
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	Total	Dissolved
Manganese	200	**50**	876	---	May-11	**248**	**208**
					Sep-11	**209**	**188**
Selenium	**50**	50	183	50	May-11	**94.7**	**107**
					Sep-11	**117**	**132**
Chloride	**250**	250	---	---	May-11	**2,190**	---
					Sep-11	**1,640**	---
Sulfate	600	**250**	---	---	May-11	**2,130**	---
					Sep-11	**1,860**	---
TDS	1,000	**500**	---	---	May-11	**6,290**	---
					Sep-11	**5,620**	---
Perchlorate	---	---	---	**15**	May-11	**22.4**	---
					Sep-11	**23.8**	**19.6**

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Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

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~~The reported concentrations for chloride, sulfate, and TDS are higher than that of the background well (MWQ-23). The higher concentrations at SMWU-131 are attributed to increased "mixing" of the ground water with the underlying Chinle Formation. MWQ-23 provides an adequate representation of background groundwater quality, however in this location less "mixing" appears to occur with the Chinle Formation. The higher concentrations of chloride, sulfate, and TDS are not believed to be associated with past disposal activities.~~

~~Manganese was detected above the screening guidelines in both the total and dissolved samples. Manganese was detected in the background well (MWQ-23) at a similar concentration, also exceeding the screening criteria. Selenium was reported present in monitoring well MAO2MW001D at a concentration ranging from 94.7 to 117 ug/L during the last year of sampling. The dissolved sample reported similar results. The total and dissolved manganese concentrations appear to be in line with historic data. Selenium was also reported at concentrations above applicable ground water standards during the Phase I RFI; however, due to~~

~~a lack of selenium in overlying soil samples it was determined that the elevated selenium concentration was likely natural (Foster Wheeler 1996; Foster Wheeler 2003).~~

Perchlorate was reported present in monitoring well MAO2MW001D at a concentration of 22.4 and 23.8 µg/L, above the screening criteria of 15 µg/L. The recent results appear to be in the same range as historic data (between 19.0 and 23.9 µg/L). During the Fall 2011 sampling event a dissolved perchlorate sample was also collected from MAO2MW001D. The total results (23.8 ug/L) were comparable to the dissolved results (19.6 ug/L). The results of a recent study of wells located throughout the High Plains indicate that perchlorate may be naturally occurring. The results of the study strongly indicate a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No evidence of specific activities associated with a release or discharge of perchlorate is noted at the installation, but due to Melrose AFB being an active military test ~~facility~~ range, an anthropogenic source ~~it~~ cannot be completely precluded ~~however unlikely~~. The reported concentrations of perchlorate in monitoring well MAO2MW001D are well within the naturally occurring background range discussed in the recent study (Rajagopala, et. Al.,~~,~~ 2006).

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~~3.1.4~~5.1.4 Annual ~~Ground Water~~Groundwater Quality Network

~~Ground water quality in the vicinity of the Mesa and Regional Flow System is similar to background ground water quality (MWQ-7 and MWQ-10).~~ As requested by NMED, this report is written and organized in general accordance with the NMED Position Paper *General Reporting Requirements for Routine Groundwater Monitoring Activities at RCRA Sites, February 14, 2003*. As such, limited to no discussion is provided below as tables "*summarizing the groundwater and QA/QC chemical analytical data, applicable cleanup levels and modifications to the groundwater sampling program can be substituted for this section.*" Applicable tables are located below, in **Appendix B** and on **Table 2**.

Of the analyse~~i~~s performed, ~~no~~ VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were undetected or were detected at concentrations below applicable screening guidelines. A total of eight parameters were detected above applicable~~the~~ ~~ground water~~groundwater screening guidelines. A summary of the exceedances of ~~ground water~~groundwater screening guidelines is

provided in the tables below:

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	75	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	**5.7**	<D.L.	<D.L.	**5.07**	<D.L.	**4.74**	<D.L.	<D.L.	<D.L.	**5.98**	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	**11**	9.1	8.9	8.9	7.0	5.7	5.3	8	<D.L.	<D.L.	8.9	9.7
					May-11	<D.L.	3	13.5	15.9	11	10.5	9.27	7.43	10.2	7.16	3.8	8.35	8.34	7.83
Iron	1000	**300**	2560	---	Jan-10	**320**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	56	25	230	<D.L.	<D.L.	<D.L.
					May-11	52.8	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Manganese	200	**50**	876	---	Jan-10	**420**	**430**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	0.91	1.0	1.6	0.92	1.3	1.2
					May-11	**82.9**	**50.1**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	Jan-10	**3,300**	---	59	---	20	---	19	---	13	---	51	---	20	---
					May-11	**3,310**	---	68	---	18	---	22	---	21	---	59	---	29	---
Sulfate	600	**250**	---	---	Jan-10	**1,400**	---	140	---	66	---	92	---	72	---	160	---	96	---
					May-11	**1,350**	---	150	---	59	---	91	---	86	---	156	---	61	---
TDS	1,000	**500**	---	---	Jan-10	**6,800**	---	470	---	380	---	420	---	360	---	**540**	---	380	---
					May-11	**7,120**	---	430	---	300	---	374	---	352	---	480	---	390	---

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	<D.L.	<D.L.	**3200**	<D.L.	64	<D.L.	38	<D.L.	**2500**	<D.L.	**560**	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	**153.0**	<D.L.	72.4	<D.L.	**261**	<D.L.	**1100**	**272**	<D.L.	<D.L.	**69.7**	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**20.1**	**6**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	9.4	4.7	6.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.800	<D.L.
					May-11	<D.L.	3.99	6.33	7.34	<D.L.	3.75	<D.L.	3.95	6.1	9.41	<D.L.	<D.L.	5.89	3.95
Iron	1000	**300**	2560	---	Jan-10	<D.L.	<D.L.	**1900**	<D.L.	**2300**	<D.L.	**63**	<D.L.	**1400**	<D.L.	**850**	<D.L.	**1100**	<D.L.
					May-11	<D.L.	<D.L.	168	<D.L.	**2820**	**2590**	241	71.1	**669**	127	147	142	**7450**	**566**
Manganese	200	**50**	876	---	Jan-10	0.75	<D.L.	40	1.3	**450**	**450**	**770**	**760**	37	2.6	**150**	**150**	**180**	**160**
					May-11	**13.8**	<D.L.	5.27	9.28	**436**	**432**	**967**	**934**	**19.9**	<D.L.	**425**	**440**	**265**	**158**
Chloride	**250**	250	---	---	Jan-10	**630**	---	35	---	**1,800**	---	**5,500**	---	120	---	**770**	---	100	---
					May-11	**715**	---	40		**2,050**	---	**6,010**	---	121	---	**342**	---	107	---
Sulfate	600	**250**	---	---	Jan-10	**950**	---	110	---	**1,500**	---	**1,600**	---	**570**	---	**420**	---	130	---
					May-11	**994**	---	110		**1,530**	---	**1,630**	---	**476**	---	233	---	216	---
TDS	1,000	**500**	---	---	Jan-10	**2,500**	---	460	---	**5,100**	---	**10,000**	---	**1,300**	---	**1,800**	---	470	---
					May-11	**2,670**	---	**520**	---	**5,500**	---	**11,900**	---	**900**	---	**936**	---	**658**	---

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Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

~~Although water quality data from the three deep wells installed in the Chinle Formation is summarized above, they are excluded from the discussion below based on the naturally elevated concentrations of TDS, chloride, sodium, etc.~~

~~Chloride, manganese, sulfate, and TDS commonly exceed ground water screening guidelines in monitoring wells in the Annual Ground Water Quality Network with more elevated concentrations observed in MWQ-19 and MWQ-21. Monitoring wells MWQ-19 and MWQ-21 are installed deeper than most area supply wells and are installed to a depth near the base of the Ogallala Formation where mixing with ground water from the Chinle Formation may be~~

~~occurring, thus degrading water quality. Background water quality (MWQ-7 and MWQ-10) generally has lower concentrations of chloride, manganese, sulfate, and TDS. The high variability of water quality, with respect to chloride, manganese, sulfate, and TDS appears to be attributable to variable degrees of "mixing" with ground water from the underlying Chinle Formation~~

~~Aluminum (total) has been detected in two of the 14 wells sampled during the 2011 Annual sampling event at concentrations above the screening criteria. However, analysis for aluminum (dissolved) has been less than the screening criteria.~~

~~The only exceedance for antimony is in MWQ-20, which as previously discussed has been excluded from this discussion based on its installation in the Chinle formation. The elevated antimony concentration appears anomalous when compared to historic data.~~

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~~Arsenic was reported present in supply wells MWQ-3, MWQ-4, and MWQ-6 at concentrations of 13.5, 11, and 10.2 ug/L respectively, all in excess of screening guideline of 10 µg/L. The concentration of 13.5 µg/L is consistent with historic data which ranges from 9.1 to 11.5 ug/L. The results from MWQ-4 and MWQ-6 while slightly higher are not inconsistent with historic data.~~

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~~Iron (total) has been detected at concentrations above the screening criteria in several wells throughout the network. However, analysis for iron (dissolved) has typically been less than the screening criteria, with a few exceptions.~~

~~Perchlorate has been detected throughout the Annual Ground Water Quality Network during previous sampling events at concentrations ranging from less than one to 11.0 µg/L. Perchlorate concentrations in the Annual Ground Water Quality Network have been less than the screening criteria of 15 µg/L. No apparent trend exists at this time but will be monitored over time. However, as previously discussed perchlorate may be naturally occurring at concentrations typically less than 4 µg/L with some areas impacted by concentrations as high as 200 µg/L (Rajagopalan, et al., 2006).~~

~~Ground water quality in the Annual Ground Water Quality Network is generally good and does not appear to have been degraded due to activities in the Impact Area.~~

~~3.2~~5.2 ~~Ground Water Elevation, Gradient and Flow Velocity~~

~~A comprehensive round of water levels was collected from the Semiannual SWMU Ground Water Monitoring Network and Annual Ground Water Monitoring Network by TRINITY between May 3, 2011 and May 16, 2011 (Spring 2011 Sampling Event) and September 26, 2011 and October 3, 2011 (Fall 2011 Sampling Event). Recent and historic ground water elevations and trends are summarized in Table 5. Three ground water flow maps are presented, in chronological order, as part of this report:~~

4. ~~Figure 5 – Median ground water flow direction based on data collected and analyzed by the USGS between 2002 and 2003 (Langman, 2004);~~
5. ~~Figure 8 – Ground water flow direction based on data collected by TRINITY between May 3, 2011 and May 16, 2011.~~
6. ~~Figure 9 – Ground water flow direction based on data collected by TRINITY between September 26, 2011 and October 3, 2011.~~

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~~Water level contours for the Southern High Plains Aquifer indicate two ground water flow systems – local and regional (Figures 5, 8, and 9). Locally, in southwest portions of Melrose AFR, ground water flows northeast from the Mesa to the Portales Valley. Ground water flow is southeast and east in the Portales Valley. This corresponds with the regional general flow direction for the Melrose AFR vicinity (Hart, 1985). A direct connection between the structural surface of the Chinle Formation confining unit and the direction of ground water flow is evident. Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day. The hydraulic conductivities for wells in the regional flow system have not been determined. The ground water gradient and flow velocities are summarized in the table below.~~

	gradient (ft/ft)		velocity (ft/y) [2]		
	local	regional	local		regional
			min	max	
1/1/2003 [1]	0.011	0.001	0.016	1.17	---
1/16/2009	0.015	0.001	0.022	1.60	---
10/25/2010	0.011	0.002	0.016	1.17	---
5/3/2011	0.014	0.002	0.020	1.49	---
9/26/2011	0.014	0.002	0.020	1.49	---

~~[1] The January 2003 ground water flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).~~
~~[2] Darcy's formula: V = KI/Ø where V = ground water velocity in ft/d; K = aquifer hydraulic conductivity in ft/d; I = ground water gradient in ft/ft; Ø = effective porosity. [3] The effective porosity is estimated to be 25 percent (Fetter, 1994).~~

~~It is not possible to calculate the flow velocity for ground water in the vicinity of the Portales Valley (regional flow system) due to a lack of data, i.e. hydraulic conductivities. Based on the limited data from the Phase I RFI and the increase in larger irrigation wells in the Portales Valley it would appear that the hydraulic conductivities increase to the north. However, as the hydraulic conductivities increase to the north the ground water gradient greatly decreases. Assuming a hydraulic conductivity of 1.0 ft/day the flow velocity for ground water in the vicinity of the Portales Valley is likely to be on the same range as ground water in the local flow system.~~

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~~3.35.3 Well Condition Inspection/Maintenance~~

~~The condition of the wells in the network, based on the most current inspection, is summarized in Table 1. As discussed, maintenance activities were undertaken during the Fall 2011 sampling event in conjunction with well abandonment activities. However, due to inclement weather it was not possible to reinstall the bollards at well cluster MWQ-18/19, MWQ-20, or MAO1MW004. However, fresh fill has been placed under all well pads with noted erosion. The bollards will be reinstalled during 2012 sampling events.~~

~~It had previously been noted by TRINITY that MWL-6 had been open and that it appeared that silt, and possibly cattle feces/hair had accumulated in the bottom of the well. Licensed well driller Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on May 17, 2011 to redevelop the well. The well was redeveloped by evacuating the well column with a steel bailer operated from a pump repair truck. The well was bailed for approximately one hour, until all silt/sediment had been removed from the bottom of the well case. The well was then pumped continuously by TRINITY until clear non-turbid water was produced. Subsequent to sampling activities the well head was properly secured. Additional wells previously identified~~

~~as open were also properly secured.~~

~~In general, the condition of the Semiannual SWMU Ground Water Quality Network and Annual Ground Water Quality Network is adequate for ground water sampling activities.~~

~~3.4~~5.4 ~~Well Abandonment Activities~~

~~TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon the six wells (M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001). TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer. Monitoring well abandonment was conducted in accordance with *NMED, Ground Water Discharge Permit, Monitoring Well Construction, and Abandonment Guidelines, Revision 1.0, July 2008* (New Mexico Environment Department, 2008) and *Well Driller Licensing; Construction, Repair and Plugging of Wells, adopted August 31, 2005*, 19.27.4 New Mexico Administrative Code (NMAC) (New Mexico Administrative Code, 2005).~~

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~~The wells were abandoned by installing tremie pipe to the bottom of the well and tremie grouting with neat Portland cement. The wells were filled with grout until overflow occurred, and then the tremie pipe was removed from the well. If the grout settled back into the well, it was continually topped off until the grout stabilized within a few feet of ground surface. Once grouting was complete, the well pads, bollards, and protective metal casings were removed for proper disposal. The well pipe was cut off just below ground surface and the land surface was restored as appropriate.~~

~~3.5~~5.5 ~~Geophysical Logging~~

~~The geophysical logging data collected is intended to enhance characterization of geology within the Ogallala and Chinle Formation at Melrose AFR. The geophysical logs are presented in Appendix F with the raw data. Four generalized cross sections utilizing the logging data for determination of contacts have been constructed for Melrose AFR (Figure 10). It should be~~

~~noted that our geologic interpretations are based almost primarily on the geophysical logging data. Supplemental data in the form of geologic surface interpretations by Langman (2004) were also utilized in the creation of the generalized cross sections. TRINITY has, to date, been unable to acquire the geologist's drilling logs for the three deep Chinle wells (MWQ-2, MWQ-20, and MWQ-22) at Melrose AFR.~~

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~~4.0~~ 6.0 SUMMARY~~CONCLUSIONS/RECOMENDATIONS~~

Based on the information and data collected during the ~~2010~~ 2011 ~~Ground Water~~Groundwater Quality sampling events, the following conclusions were reached:

- Based on TRINITYs review of the historical and recent 2011 ~~ground water~~groundwater analytical data, ~~the ground water~~groundwater beneath Melrose AFR does not appear to ~~have been~~be impacted by potential contaminants or activities associated with the SWMUs or activities associated with the Impact Area.

- All analytical data for the 2011 sampling events were evaluated by eDATApro. Level III Data Validation was performed by eDATApro according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). Based on data validation of the 2011 sampling events, the data was determined to be valid and achieved data completeness.

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- All accessible network wells were re-surveyed on December 4, 2012 to provide comprehensive elevation and location information. The results and details of the survey will be submitted to Cannon AFB under separate cover for submittal to NMED. Since TRINITY had the new survey data available prior to finalizing this~~e~~ *Revised 2011 Annual Groundwater Monitoring Report*, TRINITY included the new top of casing elevations, well locations, etc., in associated tables, ~~and discussions~~ and re-created all appropriate figures that utilize this information.

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- With regards to the background well, TRINITY had proposed to NMED, and ~~had~~ subsequently sampled well MWQ-23, to determine if this location was a viable option as a background well for the collection of groundwater samples. Based on review of the collected groundwater quality information from MWQ-23, it is TRINITYs opinion that this does not ~~appear to~~ represent an ideal background water quality sampling location. In addition, no well construction details are known about this well. Based on the previously approved work plan (~~Tidewater~~Tidewater Inc., 2010) and recent direction by NMED,

TRINITY will ~~install~~propose a new background monitoring well upgradient of the SWMUs adjacent to MWQ-10, in a separate Well Installation Work Plan.

- A background monitoring well was~~had~~ initially ~~been~~ requested on October 27, 2009, when NMED provided a review of the *Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico*, June 2009 (URS, 2009). In that response NMED stated:

  > *"NMED discourages including stock wells with steel casings in the Groundwater Quality Well Network, e.g., MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8, with the exception of MWQ-10. Although MWQ- 10 has a steel casing, it is currently the only productive well located up-gradient of the impact area.*
  >
  > *The Permittee must install a replacement monitoring well up-gradient of the impact area, then discontinue sampling and analysis of MWQ-10…"*

  TRINITY therefore proposes to remove MWL-6, MWQ-4, MWQ-5, MWQ-6, MWQ-7, and MWQ-8 from the groundwater sampling network. A proposal to remove MWQ-10 from the network will ~~not be requested~~be deferred until installation of the new background well has been completed.

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- Annual Groundwater Quality Network wells MWQ-3, MWQ-5, MWQ-6, MWQ-7, and MWQ-10 and water-~~-~~level only wells MWL-1, MWL-2, and MWL-3 and MWQ-23 contain pumps, integral plumbing, and in most cases live electrical wires. Therefore, water levels are not routinely taken due to the electrical shock hazard and high likelihood of the water level tape becoming entangled in the wiring. Additionally, ~~water level only~~water-level only wells MWL-2 and MWL-3 are located adjacent to the Jockey ~~l~~Live F~~f~~ire R~~r~~ange. Due to their locations near the ~~Jockey~~Range, TRINITY has only gained access~~ed~~to MWL-2 once, and has never inspected or collected water levels from MWL-3 due to missions. TRINITY ~~therefore~~ proposes to remove MWQ-3, MWQ-5, MWQ-6, MWQ-7, MWQ-10, MWL-1, MWL-2, MWL-3 and MWQ-23 from the water-~~-~~level only network.

- Limited to no well construction details, boring logs, well completion reports, etc. are available for the majority of the wells at Melrose AFR. Therefore, as has been pointed

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out by NMED, it is not possible to confirm that a well is screened entirely in the Ogallala Formation of the Southern High Plains Aquifer. Based on measured total depths (where available), water quality, and discussions by others (Langman, 2004) it appears that all but four wells (MWQ-2, MWQ-19, MWQ-20, and MWQ-22) are installed in the Ogallala Formation. However, with the exception of MWQ-2 for which construction details are available, this has not been entirely confirmed. TRINITY proposes utilizing a downhole camera to determine ~~the~~ screened intervals for all exiting monitoring wells. TRINITY has previously performed gamma and induction resistivity logs for monitoring wells MWQ-2, MWQ-20, and MWQ-22. Comparison of the boring log (Langman, 2004) ~~for MWQ-2~~ and the gamma and induction resistivity logs for for MWQ-2,~~this well~~ allows for the determination of the contact between the Ogallala Formation and the Chinle Formation. This could be used as a baseline to infer the same contact at other well locations, based solely on gamma and induction resistivity logs for other wells. TRINITY therefore proposes collecting gamma and induction resistivity logs for all existing monitoring wells at Melrose AFR in addition to performing downhole camera work. Utilizing the collected data along with regional lithologic information, the target formation of the wells should be detectable.~~:~~

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- ~~.Based on the recent well inventory conducted by TRINITY, the measured TD of the wells, low turbidities during sampling activities, etc. the current condition of the SWMU – Semiannual Ground Water Quality Network and Annual Ground Water Quality Network generally appears adequate for the collection of representative ground water samples.~~

- ~~Two complete rounds of ground water levels were collected from wells within the SWMU – Semiannual Ground Water Quality Network and Annual Ground Water Quality Network during the Semiannual and Annual sampling events. Based on the ground water flow maps and evaluation of geochemical data collected by TRINITY, the hydrogeological conceptual site model posed by the USGS in which three separate flow systems have been identified has been further strengthened. The USGS identified three sources of different water in the immediate vicinity of the Melrose AFR:~~

~~(1) local flow system near the Mesa and ephemeral channels,~~

~~(2) local flow system in the Impact Area, and~~

~~(3) regional flow in the Portales Valley.~~

~~Water from near the Mesa and water in the regional flow system in the Portales Valley were determined to be of somewhat similar quality. Based on the USGS findings, ground water in the vicinity of the Impact Area on Melrose AFR may possibly be mixing with water from the Chinle Formation (Mesa and Regional Flow System).~~

- ~~Several wells are currently being utilized for the collection of water levels but have not been surveyed; these wells include MWL 11, MWQ 11, MWL 12, MWQ 12, and MWQ 13. The addition of these wells to ground water flow determinations would be beneficial.~~
- ~~A total of 14 wells were sampled during the Spring 2011 Annual Ground Water Quality sampling. Ten wells were sampled during the Semiannual Ground Water Quality sampling event during the Spring and Fall 2011 sampling events. The ground water samples were submitted to the laboratory for the following analyses:~~
  - ~~*Semiannual*: VOCs, explosives, perchlorate, metals (total & dissolved), hexavalent chromium, cyanide, mercury, nitrate, nitrite, chloride, sulfate, alkalinity, and TDS.~~
  - ~~*Annual*: Perchlorate, metals (total & dissolved), hexavalent chromium, cyanide, nitrate, nitrite, chloride, sulfate, alkalinity, and TDS.~~

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~~Of all of the well samples and analyses performed during 2011, no VOCs, Explosives, Hexavalent Chromium, Cyanide, Mercury, Nitrate, or Nitrite were detected at concentrations above their respective screening criteria.~~

- ~~MWQ 23 was previously proposed as a replacement background well for MWQ 8, which is dry. MWQ 23 has been sampled twice, during the Spring and Fall 2011 sampling events. The well appears to be an adequate background well for the SWMUs and Impact Area.~~

- ~~Of the 24 metals that were analyzed in the ground water samples, only aluminum, antimony, arsenic, iron, manganese, and selenium, were detected at concentrations above a respective screening criterion.~~

- ~~Aluminum was detected in two of the wells tested at concentrations exceeding the screening criteria in the samples for "total" analyses however the concentrations were less than the screening criteria for all samples for "dissolved" analyses. No apparent trend exists at this time but will be monitored over time.~~

- ~~Antimony was detected in only two wells tested at a concentration exceeding the screening criteria in the samples for "total" analyses. In previous sampling events, antimony has never been detected above the screening criteria. Based on subsequent testing and QA/QC results the reported antimony concentrations appear to be anomalous and will be tracked in future events.~~

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- ~~Arsenic was detected in three wells during 2011 ground water sampling at a concentration exceeding the screening criteria in the sample for "total" and "dissolved" analysis. The data appears consistent with historic data.~~

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- ~~Iron was detected in four of the wells tested at concentrations exceeding the screening criteria in the samples for "total" analyses however the concentrations were typically less than the screening criteria for all samples for "dissolved" analyses, with a few exceptions.~~

- ~~Manganese (total) has been detected in four of the wells sampled during the 2011 ground water sampling at concentrations exceeding the screening criteria in the samples for "total" analyses. Manganese analytical results for "total" and "dissolved" were generally very similar. No apparent trend exists at this time but will be monitored over time.~~

- Perchlorate was reported present in only one monitoring well during the 2011 sampling period, at a concentration slightly exceeding the screening criteria. However, perchlorate

has been detected at low concentrations throughout the monitoring network. The results of a recent study of wells located throughout the High Plains of Texas and New Mexico indicate that perchlorate may be naturally occurring and strongly indicates a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No apparent trend exists at this time but will be monitored over time.

- To comply with the approved work plan (~~Tidewater~~Tidewater Inc., 2010) it is necessary to analyze a split sample of perchlorate ~~was analyzed sing~~by ~~method~~ EPA Method 6860; ~~however, it was not possible to find an additional lab to analyze the split samples that utilized method 8260~~but there are very few laboratories in the US that provide this method. In2011, TRINITY utiliezed a laboratory for analyzing the split sample ~~Therefore the split sample was analyzed~~ utilizing ~~method~~ EPA Method 6850, which has a slightly higher MDL, but is the "industry standard" for now. TRINITY is proposing to implement EPA Method 6850 for perchlorate analysis at Melrose AFR.

- To comply with the approved work plan (~~Tidewater~~Tidewater Inc. ~~2010)~~(Tidewater Inc., 2010) it is necessary to analyze hexavalent chromium by colorimetric method EPA Method 7196A. This method does~~n't~~ not typically allow for preservative; therefore, there is a 24-hour hold time. Due to the remoteness of the range, location of appropriately certified laboratories, etc., it is not possible to collect, pack, and ship samples from Melrose AFR and NOT exceed the 24-hour hold time. The hold time for hexavalent chromium is routinely exceeded; however, Level III Data Validation was performed by eDATApro according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004) and the data was determined to be valid. However, to avoid exceeding the hold time specified by ~~method~~ EPA Method 7196A, TRINITY proposes utilizing alternative method EPA 218.6. The currently approved method has a method detection limit of 3.3 ug/L. The proposed method has a method detection limit as low as 0.005 ug/L (EPA, 2013).

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- ~~Selenium was reported present in only one monitoring well (MAO2MW001D) at a concentration exceeding the screening criteria. Selenium has been detected in this same well previously at concentrations above the screening criteria; however there does not appear to be any discernable trend.~~

- During the Fall 2011 sampling event, thallium was analyzed utilizing a MDL slightly higher than the screening guideline. The Tapwater Screening Level is ~~two~~2 ug/L and ~~T~~the MDL was 2.6 ug/L. Future testing will attempt to utilize a lower MDL. To comply with the approved work plan ~~(Tidewater~~Tidewater Inc. ~~2010)~~(Tidewater Inc., 2010) it is necessary to analyze metals by method 6010C. However, to achieve a lower MDL for thallium TRINITY proposes utilizing alternative method EPA Method 6020A.

- ~~General water quality parameters of Chloride, Sulfate, and TDS were commonly detected across the Melrose AFR at concentrations exceeding their respective screening criteria, however were generally within the range of concentrations detected in the appropriate background ground water locations.~~

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- "Low-flow" sampling techniques were previously proposed for several wells within the Annual ~~Ground Water~~Groundwater Quality Network that are used for cattle stock water supply and are installed within subsurface vaults. Upon further evaluation of the well construction details it has been determined that it is not possible to adjust the flow rate at the well head. Therefore, it was necessary to sample these wells by first evacuating a well volume and then collecting stabilization parameters. These wells included MWQ-3, MWQ-5, MWQ-6, MWQ-7, MWQ-10, and MWQ-23. Limited to no well construction information is available for these wells. Additionally, NMED discourages sampling of these wells. Therefore, TRINITY has proposed above that these wells be removed from the sampling network.

- ~~Based on review of the historical and recent 2011 ground water analytical data, the ground water beneath Melrose AFR does not appear to have been impacted by potential contaminants or activities associated with the SWMUs or activities associated with the~~

~~Impact Area.~~

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APPENDIX A

Field ~~Data~~Methods

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~~Ground Water Sampling Logs~~

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~~Chain of Custodies~~

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~~Waste Manifest (IDW)~~

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APPENDIX B

~~Well Inspection Photographic Log~~ Chemical Analytical Program

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~~5.1.1~~7.1.1 Suitability of the Data

All analytical data was evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004)~~ and the project specific Quality Assurance Project Plan~~. The eDATApro Data Validation Reports are included in Appendix E. Two Sample Delivery Groups from the Spring 2011 sampling event and one from the Fall 2011 sampling event were evaluated by eDATApro and include the following:

Sample Delivery Groups – Spring 2011

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Annual Ground Water Quality Network	21105060608	TB1	21105060803	5/5/2011	9:26:00 AM
		TB2	21105060804	5/5/2011	9:26:00 AM
		MAO2MW001D	21105060801	5/5/2011	12:23:00 PM
		M114MW004	21105060802	5/5/2011	3:16:00 PM
		TB4	21105060808	5/6/2011	12:00:00 AM
		TB5	21105060809	5/6/2011	12:00:00 AM
		M114MW002	21105060805	5/6/2011	11:35:00 AM
		EB1	21105060806	5/6/2011	12:30:00 PM
		M114MW003	21105060807	5/6/2011	2:30:00 PM
		TB6	21105060814	5/9/2011	12:00:00 AM
		M114MW001	21105060815	5/9/2011	9:55:00 AM
		M114MW001-DUP	21105060816	5/9/2011	9:55:00 AM
		MAO1MW001	21105060810	5/9/2011	2:16:00 PM
		MAO1MW001-MS	21105060811	5/9/2011	2:16:00 PM
		MAO1MW001-MSD	21105060812	5/9/2011	2:16:00 PM
		TB8	21105060817	5/10/2011	12:00:00 AM
		TB7	21105060820	5/10/2011	12:00:00 AM
		MAOMW004	21105060818	5/10/2011	11:11:00 AM
		MAOMW003	21105060819	5/10/2011	1:20:00 PM
		TB9	21105170903	5/16/2011	12:00:00 AM
		MAO1MW002	21105170901	5/16/2011	9:35:00 AM
		MWQ23	21105170902	5/16/2011	11:10:00 AM

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual Ground Water Quality Network	21105050426	MWQ-3	21105042601	5/3/2011	9:15:00 AM
		MWQ-4	21105042602	5/3/2011	10:18:00 AM
		MWQ-5	21105042603	5/3/2011	11:57:00 AM
		MWQ-5-DUP	21105042604	5/3/2011	11:57:00 AM
		MWQ-6	21105042605	5/3/2011	1:12:00 PM
		MWQ-7	21105042606	5/3/2011	1:53:00 PM
		MWQ-10	21105042607	5/3/2011	3:23:00 PM
		MWQ-10-MS	21105042608	5/3/2011	3:23:00 PM
		MWQ-10-MSD	21105042609	5/3/2011	3:23:00 PM
		MWQ-2	21105042611	5/5/2011	9:26:00 AM
		MWQ-22	21105042612	5/11/2011	11:01:00 AM
		MWQ-21	21105042613	5/11/2011	1:05:00 PM
		MWQ-19	21105042614	5/12/2011	9:50:00 AM
		MWQ-18	21105042615	5/12/2011	12:40:00 PM
		MWQ-14	21105042616	5/13/2011	12:31:00 PM
		MWQ14-MS	21105042617	5/13/2011	12:31:00 PM
		MWQ14-MSD	21105042618	5/13/2011	12:31:00 PM
		MWQ-20	21105042620	5/17/2011	1:22:00 PM
		MWQ-20 DUP	21105042621	5/17/2011	1:22:00 PM
		EB2	21105042622	5/18/2011	10:30:00 AM
		MWL6	21105190401	5/18/2011	2:30:00 PM

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Sample Delivery Groups – 2011 Semiannual Fall

	SDG	Sample ID	Lab ID	Sample Date	Sample Time		Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual	2110928048	MA01MW001	21109280401	9/27/2011	9:33:00		TB-4	21109280413	9/29/2011	8:40:00
		MA01MW003	21109280402	9/27/2011	12:21:00 PM		MA01-MW004	21109280411	9/29/2011	11:10:00
		MA01MW003-MS	21109280403	9/27/2011	12:21:00 PM		MA01-MW002	21109280412	9/29/2011	1:06:00 PM
		MA01MW003-MSD	21109280404	9/27/2011	12:21:00 PM		M114MW004	21110010501	9/30/2011	10:00:00
		MA01MW003-DUP	21109280406	9/27/2011	12:21:00 PM		TB-5	21110010503	9/30/2011	10:00:00
		TB-1	21109280405	9/27/2011	4:33:00 PM		M114MW001	21110010502	9/30/2011	12:36:00 PM
		MA02 MW001D	21109280407	9/28/2011	10:28:00		EB-1	21110010504	10/3/2011	8:00:00
		FD-1	21109280408	9/28/2011	10:28:00		TB-6	21110010507	10/3/2011	8:00:00
		TB-2	21109280409	9/28/2011	10:28:00		M114MW002	21110010505	10/3/2011	9:32:00
		MWQ-23	21109280410	9/29/2011	8:40:00		M114MW003	21110010506	10/3/2011	11:46:00

~~5.1.1.1~~7.1.1.1 Holding Times

Review of the sample collection and analyses dates involved comparing the COCs, the chemical results summary forms, and the raw data forms for accuracy, consistency, and holding time compliance. All samples were prepared and analyzed within the required holding time criteria with the exception of the following:

- **2011 Annual Spring (SDG 211050426)**

  2. MWQ-3 was received after expiration of the 24-hour holding time for Chromium VI. MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, and MWQ-7 were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. Accordingly, the sample results were qualified as estimated "J" or estimated non-detect "UJ."

- **2011 SemiAnnual Fall (SDG 2110928048)**

  3. Recovery of the surrogate analyte 1,2-dinitrobenzene for explosives by method 8330 in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.
  4. Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).

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~~5.1.1.2~~7.1.1.2 Blank Samples

- **2011 Annual Spring (SDG 211050426)**

9. Measurable quantities of arsenic (total), cadmium (total), and manganese (total) were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
10. Measurable quantities of antimony (total) and lead (total) were observed at a concentration less than the laboratory RL in one or more initial calibration blank/continuing calibration blank (ICB/CCB) samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
11. A measurable quantity of (total) cadmium was observed at a concentration less than the laboratory RL in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
12. Measurable quantities of (total) arsenic, cadmium, copper, and manganese were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
13. Measurable quantities of arsenic (dissolved) and cadmium (dissolved) were observed at a concentration less than the laboratory RL in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
14. Measurable quantities of antimony (dissolved) and lead (dissolved) were observed at a concentration less than the laboratory RL in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

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15. A measurable quantity of cadmium (dissolved) was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
16. Measurable quantities of cadmium (dissolved), copper (dissolved), manganese (dissolved), nickel (dissolved), and zinc (dissolved) were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

- **2011 Semiannual Spring (SDG 211050608)**

8. A measurable quantity of acetone was observed at a concentration less than the laboratory RL in preparation blank sample MB945623. The laboratory qualified associated results with "B." This qualifier was removed from non-detect values. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

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9. A measurable quantity of nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory result of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.
10. A measurable quantity of manganese (total) was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
11. Measurable quantities of total analytes barium (total), copper (total), manganese (total), and zinc (total) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this

delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.

12. Measurable quantities of barium (dissolved) and cadmium (dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (dissolved). Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.
13. A measurable quantity of barium (dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The barium (dissolved) result in sample EB1 was modified to non-detect (U) at the RL.
14. Measurable quantities of aluminum (Dissolved), arsenic (Dissolved), cadmium (Dissolved), copper (Dissolved), and zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.

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- **2011 SemiAnnual Fall (SDG 2110928048)**

9. An estimate concentration of acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.
10. Estimate concentrations of acetone and methylene chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.
11. Estimate concentrations of acetone and methylene chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.

12. An estimate concentration of sodium (total) was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.
13. Estimated concentrations of sodium (total) were observed in the CCBs bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and MA01-MW002. No estimated concentrations of this analyte were reported in these samples. No result qualifications were necessary.
14. An estimate concentration of barium (total) was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
15. An estimate concentration of silver (total) was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
16. Estimate concentrations of manganese (total), nickel (total), and zinc (total) were reported in equipment rinsate blank sample EB-1. The laboratory results for manganese in samples M114MW002 and M114MW003 and nickel in sample M114MW002 were modified to non-detect (U) at the RL.

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~~5.1.1.3~~7.1.1.3 Surrogate Compounds

- **2011 Annual Spring (SDG 211050426)**

  In accordance with the updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp., 2011) VOCs and explosives are not part of the required analytical suite for Annual wells.

- **2011 Semiannual Spring (SDG 211050608)**

  Surrogate recoveries for all VOC and explosive samples were within evaluation criteria.

- **2011 SemiAnnual Fall (SDG 2110928048)**

Recovery of the surrogate analyte 1,2-dinitrobenzene for explosives by method 8330 ~~Recovery of the surrogate analyte~~ in samples MWQ-23, MA01-MW002, M114MW002 and, M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.

~~5.1.1.4~~7.1.1.4 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- **2011 Annual Spring (SDG 211050426)**
  All LCS/LCSD QC samples were within evaluation criteria.

- **2011 Semiannual Spring (SDG 211050608)**
  Recovery of target analyte HMX in the LCS/LCSD from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a "Q." This qualifier was removed during the validation review.

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- **2011 SemiAnnual Fall (SDG 2110928048)**
  All LCS/LCSD QC samples were within evaluation criteria.

~~5.1.1.5~~7.1.1.5 Field Duplicate Analysis

Field duplicate sample pair results were within evaluation criteria (25 percent relative percent difference [RPD] or within ±two times the RL if either the sample or duplicate are less than five times the RL) for VOCs, and explosives duplicate sample pairs. Some metals parameters did not meet the field duplicate criteria. Analytical results for the field duplicate sample pairs are presented in the table below.

Field Duplicate Analysis

Chemical Name	Units	2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
		M114MW001	Duplicate	RPD	MWQ-5	Duplicate	RPD	MWQ-20	Duplicate	RPD	MAO2MW001D	Duplicate	RPD
		Result	Result		Result	Result		Result	Result		Result	Result	
Aluminum	ug/L	60	64.5	7.2	60	60	0.0	261	285	8.8	60	78.9	27.2
Antimony	ug/L	4.03	4.03	0.0	4.03	4.03	0.0	20.3	4.8	123.5	3.98	3.98	0.0
Nickel	ug/L	19.7	20.7	5.0	0.96	0.96	0.0	0.96	0.96	0.0	1.43	1.82	24.0
Aluminum (Dissolved)	ug/L	77.6	60	25.6	60	60	0.0	60	60	0.0	60	60	0.0
Antimony (Dissolved)	ug/L	4.03	4.03	0.0	4.74	4.03	16.2	6	4.33	32.3	3.98	3.98	0.0
Arsenic (Dissolved)	ug/L	2.74	2.53	8.0	7.43	8.16	9.4	3.95	2.53	43.8	3.49	3.85	9.8
Nickel (Dissolved)	ug/L	19.1	19.6	2.6	0.96	0.96	0.0	0.96	0.96	0.0	2.14	1.58	30.1
Chromium VI	ug/L	2.8	2.8	0.0	2.8	2.8	0.0	2.8	2.8	0.0	3.3	6	58.1

~~5.1.1.6~~7.1.1.6

~~5.1.1.7~~7.1.1.7 **Matrix Spike/Matrix Spike Duplicate Analysis**

The MS/MSD recoveries for inorganic compounds (calcium, magnesium, and sodium) with sample concentrations greater than four times the matrix spike concentration did not require evaluation or qualification. The data review guidelines established in the QAPP state that organic data (mercury) will not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of data was required. MS/MSD recoveries and RPDs that were outside control limits are listed in the following table.

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Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated "UJ".

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Recovery of numerous explosives analytes in the matrix spike and matrix spike duplicate fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.

MS/MSD Summary

Parameter	Limits		2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)						2011 Annual Fall (SDG 2110928048)		
			MAO1MW001			MWQ-10			MWQ-14			MAO2MW001D		
	Min	Max	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD
1,3,5-Trinitrobenzene	65	140	139.4	**148.7**	6.5	na	na	na	na	na	na	86.9	72.1	18.7
2,4,6-Trinitrotoluene	50	145	141.0	**147.6**	4.5	na	na	na	na	na	na	73.6	61.9	17.3
2,4-Dinitrotoluene	60	135	**147.2**	**154.3**	4.7	na	na	na	na	na	na	91.6	73.2	22.4
2,6-Dinitrotoluene	60	135	**153.9**	**162.5**	5.5	na	na	na	na	na	na	80.2	60.9	27.5
2-Nitrotoluene	45	135	**188.6**	**195.9**	3.8	na	na	na	na	na	na	72.5	60.8	17.6
3-Nitrotoluene	50	130	**157.1**	**164.1**	4.4	na	na	na	na	na	na	63.2	**46.9**	29.5
4-Amino-2,6-dinitrotoluene	55	155	142.6	151.8	6.2	na	na	na	na	na	na	63.1	**55.0**	13.7
4-Nitrotoluene	50	130	**163.9**	**171.5**	4.5	na	na	na	na	na	na	58.7	**44.3**	28.0
Calcium	80	120	90.0	100.0	10.5	**128.0**	116.0	9.8	**192.0**	**210.0**	9.0	**126.0**	98.0	25.0
Calcium	80	120	106.0	**64.0**	49.4	**56.0**	**126.0**	76.9	**178.0**	**164.0**	8.2	**202.0**	**208.0**	2.9
HMX	80	115	**124.0**	**131.0**	5.5	na	na	na	na	na	na	102.0	81.3	22.6
m,p-Xylene	75	130	**196.0**	**187.8**	4.3	na	na	na	na	na	na	**207.8**	**203.8**	1.9
Magnesium	80	120	88.0	**68.0**	25.6	**138.0**	116.0	17.3	**172.0**	**212.0**	20.8	**120.0**	**78.0**	42.4
Magnesium	80	120	82.0	**62.0**	27.8	**56.0**	**130.0**	79.6	**150.0**	**166.0**	10.1	**236.0**	**172.0**	31.4
Mercury	80	120	94.0	94.4	0.4	111.4	104.2	6.7	**79.6**	**76.2**	4.4	88.3	86.3	2.3
Mercury	80	120	91.6	94.4	3.0	109.8	104.2	5.2	**78.6**	81.4	3.5	84.9	86.1	1.4
Nitrobenzene	50	140	**155.7**	**159.2**	2.2	na	na	na	na	na	na	85.7	69.1	21.5
Sodium	80	120	**135.0**	**135.0**	0.0	101.0	103.5	2.4	**240.0**	**335.0**	33.0	**165.0**	**135.0**	20.0
Sodium	80	120	**160.0**	**-15.0**	241.4	88.0	98.0	10.8	**245.0**	**220.0**	10.8	**460.0**	**300.0**	42.1
Tetryl	20	175	**175.6**	**197.0**	11.5	na	na	na	na	na	na	45.4	32.3	33.7
Total Cyanide	80	120	93.4	95.0	1.7	**73.8**	**74.0**	0.3	**78.0**	**78.4**	0.5	98.6	98.2	0.4

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APPENDIX C

~~Parameter Summary and Trends~~Chemical Analytical Reports

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APPENDIX D

~~Analytical Data (On attached CD)~~Field Data

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Groundwater Sampling Logs

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Chain of Custodies

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Waste Manifests (IDW)

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APPENDIX E

~~Analytical Data Validation (On attached CD)~~Photographic Log

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APPENDIX F

Geophysical Logs~~/Data~~

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NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 02/11/2013

GCAL Report 211050426

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose AFB Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050426

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C (Dissolved and Total) analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument. The dilutions are reflected in elevated detection limits.

In the SW-846 6010C analysis for prep batch 455675, the MS/MSD and post-digestion spike recoveries recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 455676, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Barium was detected at a concentration > ½ the PQL in the method blank. The concentration is less than 1/10 the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium and Sodium on ICP6, 05/25/11 at 1921. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456691, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium on ICP6, 05/27/11 at 1406 and for Sodium on ICP6, 05/31/11 at 1254. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1505. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456692, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 456846, the MS recovery is outside the control limits for Sodium. The MSD and LCS recoveries are acceptable. A post-digestion spike was performed on the QC

sample for this batch with a recovery of 110%. The MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Thallium on ICP6, 05/31/11 at 1448. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1637. Only one schedule can be reported on a form 3 for a method blank. Manganese is flagged E, estimated on the serial dilution due to the fact that the % difference between the original result and the serial dilution result is greater than 10.

In the SW-846 6010C analysis for prep batch 456848, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Beryllium and Thallium on ICP6, 05/31/11 at 1555. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1758. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 7470A analysis for prep batch 457095, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010C analysis, the recovery for the low level check standard (CRDL) is outside 80-120% for Zinc (79%). This is associated with sample 21105190401 (MWL6). This sample was analyzed twice. The method blank concentration exceeded ½ PQL and was greater than 10% of the concentration detected in the sample in the first run. All other batch and instrument QC was acceptable. The only issue in the second run was the low recovery for the CRDL standard. The sample result for Zinc is comparable in both runs with a slightly higher result in the second run. The client was contacted and allowed the data to be reported with the CRDL exceedance.

In the SW-846 6010C analysis, Thallium was detected at a concentration greater than the LOD in one CCB (ICP6, 05/10/11, 1130). Thallium was not detected in the associated samples.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (ICP6, 05/24/11; 1431, 1608, 1732) is greater than the LOD but less than the PQL. The concentrations are less than 1/10 the concentration detected in the associated samples. Some samples required reanalysis.

CONVENTIONALS

In the EPA 300.0 analysis, all samples except 21105042622 (EB2 had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 300.0 analysis for analytical batch 456395, the MS/MSD was analyzed on sample 21105042615 (MWQ-18) rather than sample 21105042616 (MWQ14) as requested on the COC.

In the EPA 353.2 analysis, samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), 21105042606 (MWQ-7), 21105042607 (MWQ-10), 21105042608 (MWQ-10-MS), 21105042609 (MWQ-10-MSD), 21105042613 (MWQ21), 21105042616 (MWQ14), 21105042617 (MWQ14 MS), and 21105042618 (MWQ14 MSD) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SW-846 9012A analysis for prep batch 455725, the MS/MSD recoveries are outside the control limits for Total Cyanide. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 9012A analysis for analytical batch 456904, the MSD recovery is outside the control limits

for Total Cyanide. The MSD and LCS recoveries are acceptable.

Sample 21105042601 (MWQ-3) was received after expiration of the 24-hour holding time for Chromium VI. Samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), and 21105042606 (MWQ-7) were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. The client was contacted and authorized the laboratory to proceed with the analysis.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105042607 (MWQ-10) and 21105042613 (MWQ21) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

Sample 21105042615 (MWQ-18) was filtered and preserved at the laboratory for dissolved metals.

See the sub-contract lab report narrative for the Perchlorate analysis.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

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This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211050426

THIS REPORT CONTAINS 217 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20
21105042619	MWQ14-DUP	Water	05/13/2011 12:31	05/14/2011 09:20
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.738	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	68.3	5.00	1.05	mg/L
14808-79-8	Sulfate	150	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.70J	60.0	4.03	ug/L
7440-38-2	Arsenic	13.5	10.0	2.53	ug/L
7440-39-3	Barium	31.1	10.0	0.11	ug/L
7440-43-9	Cadmium	0.44J	5.00	0.20	ug/L
7440-70-2	Calcium	30200	100	50.0	ug/L
7440-47-3	Chromium	1.65J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.65J	10.0	1.00	ug/L
7440-50-8	Copper	10.4	10.0	1.37	ug/L
7439-95-4	Magnesium	33100	100	50.0	ug/L
7439-98-7	Molybdenum	3.84J	50.0	3.75	ug/L
7440-09-7	Potassium	6210	500	100	ug/L
7440-23-5	Sodium	81700	1000	200	ug/L
7440-62-2	Vanadium	104	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	15.9	10.0	2.53	ug/L
7440-39-3	Barium	27.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.83J	5.00	0.20	ug/L
7440-70-2	Calcium	29600	100	50.0	ug/L
7440-47-3	Chromium	1.15J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.15J	10.0	1.00	ug/L
7440-50-8	Copper	10.8	10.0	1.37	ug/L
7439-92-1	Lead	6.40J	15.0	1.39	ug/L
7439-95-4	Magnesium	32300	100	50.0	ug/L
7439-98-7	Molybdenum	4.54J	50.0	3.75	ug/L
7440-09-7	Potassium	6210	500	100	ug/L
7440-23-5	Sodium	80300	1000	200	ug/L
7440-62-2	Vanadium	100	20.0	3.75	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	430	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	145	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	17.6	1.00	0.210	mg/L
14808-79-8	Sulfate	59.0	2.00	0.790	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.43	0.050	0.013	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	11.0	10.0	2.53	ug/L
7440-39-3	Barium	50.4	10.0	0.11	ug/L
7440-43-9	Cadmium	0.36B	5.00	0.20	ug/L
7440-70-2	Calcium	42300	100	50.0	ug/L
7440-50-8	Copper	11.8	10.0	1.37	ug/L
7439-92-1	Lead	2.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	19400	100	50.0	ug/L
7440-09-7	Potassium	3310	500	100	ug/L
7440-23-5	Sodium	55900	1000	200	ug/L
7440-62-2	Vanadium	79.8	20.0	3.75	ug/L
7440-66-6	Zinc	7.24B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.07B	60.0	4.03	ug/L
7440-38-2	Arsenic	10.5	10.0	2.53	ug/L
7440-39-3	Barium	46.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.94B	5.00	0.20	ug/L
7440-70-2	Calcium	42300	100	50.0	ug/L
7440-50-8	Copper	9.83B	10.0	1.37	ug/L
7439-92-1	Lead	2.61B	15.0	1.39	ug/L
7439-95-4	Magnesium	19200	100	50.0	ug/L
7440-09-7	Potassium	3310	500	100	ug/L
7440-23-5	Sodium	56400	1000	200	ug/L
7440-62-2	Vanadium	78.8	20.0	3.75	ug/L
7440-66-6	Zinc	7.38B	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	177	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	300	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.8	2.00	0.420	mg/L
14808-79-8	Sulfate	90.8	4.00	1.58	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.53	0.100	0.026	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.74B	60.0	4.03	ug/L
7440-38-2	Arsenic	7.43B	10.0	2.53	ug/L
7440-39-3	Barium	30.3	10.0	0.11	ug/L
7440-43-9	Cadmium	1.10B	5.00	0.20	ug/L
7440-70-2	Calcium	40800	100	50.0	ug/L
7440-50-8	Copper	8.59B	10.0	1.37	ug/L
7439-95-4	Magnesium	21600	100	50.0	ug/L
7440-09-7	Potassium	3240	500	100	ug/L
7440-23-5	Sodium	63600	1000	200	ug/L
7440-62-2	Vanadium	80.8	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	9.27B	10.0	2.53	ug/L
7440-39-3	Barium	35.6	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.76B	5.00	0.20	ug/L
7440-70-2	Calcium	42500	100	50.0	ug/L
7440-47-3	Chromium	1.48B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.48B	10.0	1.00	ug/L
7440-50-8	Copper	9.64B	10.0	1.37	ug/L
7439-95-4	Magnesium	23100	100	50.0	ug/L
7440-09-7	Potassium	3260	500	100	ug/L
7440-23-5	Sodium	65200	1000	200	ug/L
7440-62-2	Vanadium	84.3	20.0	3.75	ug/L
7440-66-6	Zinc	2.88B	20.0	2.72	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	374	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	175	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.19	0.100	0.026	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.5	2.00	0.420	mg/L
14808-79-8	Sulfate	91.5	4.00	1.58	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	8.16B	10.0	2.53	ug/L
7440-39-3	Barium	31.1	10.0	0.11	ug/L
7440-43-9	Cadmium	0.96B	5.00	0.20	ug/L
7440-70-2	Calcium	42000	100	50.0	ug/L
7440-50-8	Copper	8.54B	10.0	1.37	ug/L
7439-92-1	Lead	5.28B	15.0	1.39	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-95-4	Magnesium	22300	100	50.0	ug/L
7440-09-7	Potassium	3180	500	100	ug/L
7440-23-5	Sodium	64800	1000	200	ug/L
7440-62-2	Vanadium	83.7	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.82B	10.0	2.53	ug/L
7440-39-3	Barium	34.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.78B	5.00	0.20	ug/L
7440-70-2	Calcium	41600	100	50.0	ug/L
7440-47-3	Chromium	1.35B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.35B	10.0	1.00	ug/L
7440-50-8	Copper	10.5	10.0	1.37	ug/L
7439-92-1	Lead	4.06B	15.0	1.39	ug/L
7439-95-4	Magnesium	22000	100	50.0	ug/L
7439-96-5	Manganese	2.01B	15.0	2.00	ug/L
7440-09-7	Potassium	3130	500	100	ug/L
7440-23-5	Sodium	64000	1000	200	ug/L
7440-62-2	Vanadium	81.5	20.0	3.75	ug/L
7440-66-6	Zinc	2.77B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	170	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	380	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.39	0.050	0.013	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.4	2.00	0.420	mg/L
14808-79-8	Sulfate	85.5	4.00	1.58	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	10.2	10.0	2.53	ug/L
7440-39-3	Barium	38.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.72B	5.00	0.20	ug/L
7440-70-2	Calcium	40800	100	50.0	ug/L
7440-47-3	Chromium	1.42B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.42B	10.0	1.00	ug/L
7440-50-8	Copper	7.09B	10.0	1.37	ug/L
7439-95-4	Magnesium	19700	100	50.0	ug/L
7440-09-7	Potassium	2120	500	100	ug/L
7440-23-5	Sodium	57900	1000	200	ug/L
7440-62-2	Vanadium	77.7	20.0	3.75	ug/L
7440-66-6	Zinc	7.87B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.16B	10.0	2.53	ug/L
7440-39-3	Barium	34.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.96B	5.00	0.20	ug/L
7440-70-2	Calcium	40600	100	50.0	ug/L
7440-50-8	Copper	7.23B	10.0	1.37	ug/L
7439-92-1	Lead	2.42B	15.0	1.39	ug/L
7439-95-4	Magnesium	19300	100	50.0	ug/L
7440-09-7	Potassium	2610	500	100	ug/L
7440-23-5	Sodium	57900	1000	200	ug/L
7440-62-2	Vanadium	78.4	20.0	3.75	ug/L
7440-66-6	Zinc	5.61B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	160	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	352	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.31	0.020	0.005	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	59.3	5.00	1.05	mg/L
14808-79-8	Sulfate	156	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.80B	10.0	2.53	ug/L
7440-39-3	Barium	33.7	10.0	0.11	ug/L
7440-43-9	Cadmium	0.87B	5.00	0.20	ug/L
7440-70-2	Calcium	57600	100	50.0	ug/L
7440-50-8	Copper	8.93B	10.0	1.37	ug/L
7439-92-1	Lead	4.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	24500	100	50.0	ug/L
7440-09-7	Potassium	2690	500	100	ug/L
7440-23-5	Sodium	72000	1000	200	ug/L
7440-62-2	Vanadium	76.8	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.98B	60.0	4.03	ug/L
7440-38-2	Arsenic	8.35B	10.0	2.53	ug/L
7440-39-3	Barium	29.5	10.0	0.11	ug/L
7440-43-9	Cadmium	1.35B	5.00	0.20	ug/L
7440-70-2	Calcium	57200	100	50.0	ug/L
7440-47-3	Chromium	1.34B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.34B	10.0	1.00	ug/L
7440-50-8	Copper	8.81B	10.0	1.37	ug/L
7439-92-1	Lead	3.40B	15.0	1.39	ug/L
7439-95-4	Magnesium	24600	100	50.0	ug/L
7440-09-7	Potassium	2650	500	100	ug/L
7782-49-2	Selenium	6.12B	40.0	4.34	ug/L
7440-23-5	Sodium	72700	1000	200	ug/L
7440-62-2	Vanadium	74.4	20.0	3.75	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	480	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	7.07	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	29.3	2.00	0.420	mg/L
14808-79-8	Sulfate	60.6	4.00	1.58	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09210B	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	8.34B	10.0	2.53	ug/L
7440-39-3	Barium	124	10.0	0.11	ug/L
7440-43-9	Cadmium	0.73B	5.00	0.20	ug/L
7440-70-2	Calcium	53600	100	50.0	ug/L
7440-50-8	Copper	12.3	10.0	1.37	ug/L
7439-92-1	Lead	1.54B	15.0	1.39	ug/L
7439-95-4	Magnesium	40400	100	50.0	ug/L
7439-98-7	Molybdenum	3.77B	50.0	3.75	ug/L
7440-09-7	Potassium	5950	500	100	ug/L
7440-23-5	Sodium	21100	1000	200	ug/L
7440-62-2	Vanadium	68.8	20.0	3.75	ug/L
7440-66-6	Zinc	3.30B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.83B	10.0	2.53	ug/L
7440-39-3	Barium	123	10.0	0.11	ug/L
7440-43-9	Cadmium	0.86B	5.00	0.20	ug/L
7440-70-2	Calcium	54300	100	50.0	ug/L
7440-47-3	Chromium	1.07B	10.0	1.00	ug/L
7440-50-8	Copper	12.2	10.0	1.37	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	2.43B	15.0	1.39	ug/L
7439-95-4	Magnesium	40500	100	50.0	ug/L
7439-98-7	Molybdenum	4.87B	50.0	3.75	ug/L
7440-09-7	Potassium	6090	500	100	ug/L
7440-23-5	Sodium	21500	1000	200	ug/L
7440-62-2	Vanadium	69.8	20.0	3.75	ug/L
7440-66-6	Zinc	4.86B	20.0	2.72	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	216	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	5.00B	10.0	2.80	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	390	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0375	0.0050	0.0006	mg/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.65	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4940	200	60.0	ug/L
7440-36-0	Antimony	511	60.0	4.03	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	536	10.0	2.53	ug/L
7440-39-3	Barium	630	10.0	0.11	ug/L
7440-41-7	Beryllium	508	5.00	0.11	ug/L
7440-43-9	Cadmium	504	5.00	0.20	ug/L
7440-70-2	Calcium	60000	100	50.0	ug/L
7440-47-3	Chromium	499	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	495	10.0	1.37	ug/L
7439-89-6	Iron	5040	100	40.0	ug/L
7439-92-1	Lead	505	15.0	1.39	ug/L
7439-95-4	Magnesium	47300	100	50.0	ug/L
7439-96-5	Manganese	504	15.0	2.00	ug/L
7439-98-7	Molybdenum	514	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	510	40.0	4.34	ug/L
7440-22-4	Silver	501	10.0	0.60	ug/L
7440-23-5	Sodium	41300	1000	200	ug/L
7440-28-0	Thallium	519	20.0	1.75	ug/L
7440-32-6	Titanium	498	100	1.20	ug/L
7440-62-2	Vanadium	571	20.0	3.75	ug/L
7440-66-6	Zinc	500	20.0	2.72	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.58	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4670	200	60.0	ug/L
7440-36-0	Antimony	501	60.0	4.03	ug/L
7440-38-2	Arsenic	522	10.0	2.53	ug/L
7440-39-3	Barium	596	10.0	0.11	ug/L
7440-41-7	Beryllium	487	5.00	0.11	ug/L
7440-43-9	Cadmium	480	5.00	0.20	ug/L
7440-70-2	Calcium	57100	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	459	10.0	1.00	ug/L
7440-50-8	Copper	468	10.0	1.37	ug/L
7439-89-6	Iron	4690	100	40.0	ug/L
7439-92-1	Lead	495	15.0	1.39	ug/L
7439-95-4	Magnesium	43300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	497	50.0	3.75	ug/L
7440-02-0	Nickel	444	40.0	0.96	ug/L
7440-09-7	Potassium	15100	500	100	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	505	40.0	4.34	ug/L
7440-22-4	Silver	481	10.0	0.60	ug/L
7440-23-5	Sodium	39100	1000	200	ug/L
7440-28-0	Thallium	493	20.0	1.75	ug/L
7440-32-6	Titanium	475	100	1.20	ug/L
7440-62-2	Vanadium	545	20.0	3.75	ug/L
7440-66-6	Zinc	480	20.0	2.72	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	535	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.468	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.6	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	78.1	2.00	0.420	mg/L
14808-79-8	Sulfate	161	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0376	0.0050	0.0006	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4830	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	538	10.0	2.53	ug/L
7440-39-3	Barium	620	10.0	0.11	ug/L
7440-41-7	Beryllium	503	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	60600	100	50.0	ug/L
7440-47-3	Chromium	486	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	484	10.0	1.37	ug/L
7439-89-6	Iron	4890	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	47000	100	50.0	ug/L
7439-96-5	Manganese	495	15.0	2.00	ug/L
7439-98-7	Molybdenum	506	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	519	40.0	4.34	ug/L
7440-22-4	Silver	496	10.0	0.60	ug/L
7440-23-5	Sodium	41100	1000	200	ug/L
7440-28-0	Thallium	503	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	495	20.0	2.72	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.29	0.20	0.081	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	5.30	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4870	200	60.0	ug/L
7440-36-0	Antimony	523	60.0	4.03	ug/L
7440-38-2	Arsenic	544	10.0	2.53	ug/L
7440-39-3	Barium	626	10.0	0.11	ug/L
7440-41-7	Beryllium	504	5.00	0.11	ug/L
7440-43-9	Cadmium	499	5.00	0.20	ug/L
7440-70-2	Calcium	59400	100	50.0	ug/L
7440-47-3	Chromium	496	10.0	1.00	ug/L
7440-48-4	Cobalt	479	10.0	1.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	Copper	490	10.0	1.37	ug/L
7439-89-6	Iron	4940	100	40.0	ug/L
7439-92-1	Lead	513	15.0	1.39	ug/L
7439-95-4	Magnesium	46200	100	50.0	ug/L
7439-96-5	Manganese	500	15.0	2.00	ug/L
7439-98-7	Molybdenum	524	50.0	3.75	ug/L
7440-02-0	Nickel	463	40.0	0.96	ug/L
7440-09-7	Potassium	16200	500	100	ug/L
7782-49-2	Selenium	527	40.0	4.34	ug/L
7440-22-4	Silver	499	10.0	0.60	ug/L
7440-23-5	Sodium	41800	1000	200	ug/L
7440-28-0	Thallium	524	20.0	1.75	ug/L
7440-32-6	Titanium	497	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	531	20.0	2.72	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	0.200	0.052	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	80.9	2.00	0.420	mg/L
14808-79-8	Sulfate	160	4.00	1.58	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	531	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.470	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	388	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	220	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.244	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3310	100	21.0	mg/L
14808-79-8	Sulfate	1350	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.00B	10.0	2.53	ug/L
7440-39-3	Barium	28.2	10.0	0.11	ug/L
7440-43-9	Cadmium	0.49B	5.00	0.20	ug/L
7440-70-2	Calcium	204000	100	50.0	ug/L
7440-47-3	Chromium	2.25B	10.0	1.00	ug/L
7440-50-8	Copper	22.2	10.0	1.37	ug/L
7439-95-4	Magnesium	135000	100	50.0	ug/L
7439-96-5	Manganese	50.1	15.0	2.00	ug/L
7439-98-7	Molybdenum	22.6B	50.0	3.75	ug/L
7440-02-0	Nickel	1.89B	40.0	0.96	ug/L
7440-09-7	Potassium	12600	500	100	ug/L
7440-62-2	Vanadium	71.6	20.0	3.75	ug/L
7440-66-6	Zinc	426	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	187000	100	50.0	ug/L
7440-47-3	Chromium	2.53B	10.0	1.00	ug/L
7440-50-8	Copper	23.9	10.0	1.37	ug/L
7439-89-6	Iron	52.8B	100	40.0	ug/L
7439-95-4	Magnesium	124000	100	50.0	ug/L
7439-96-5	Manganese	82.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	20.6B	50.0	3.75	ug/L
7440-02-0	Nickel	1.60B	40.0	0.96	ug/L
7440-09-7	Potassium	11600	500	100	ug/L
7440-62-2	Vanadium	73.5	20.0	3.75	ug/L
7440-66-6	Zinc	394	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2170000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	34.3	10.0	0.11	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7120	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	83.1	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.00B	10.0	2.80	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.011	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.309	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	342	20.0	4.20	mg/L
14808-79-8	Sulfate	233	40.0	15.8	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	37300	100	50.0	ug/L
7440-50-8	Copper	7.72B	10.0	1.37	ug/L
7439-89-6	Iron	147	100	40.0	ug/L
7439-95-4	Magnesium	16200	100	50.0	ug/L
7439-96-5	Manganese	426	15.0	2.00	ug/L
7439-98-7	Molybdenum	11.1B	50.0	3.75	ug/L
7440-09-7	Potassium	3260	500	100	ug/L
7440-23-5	Sodium	315000	1000	200	ug/L
7440-62-2	Vanadium	29.4	20.0	3.75	ug/L
7440-66-6	Zinc	7.64B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	40.8	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	37.6	10.0	0.11	ug/L
7440-70-2	Calcium	38500	100	50.0	ug/L
7440-50-8	Copper	6.97B	10.0	1.37	ug/L
7439-89-6	Iron	142	100	40.0	ug/L
7439-95-4	Magnesium	17400	100	50.0	ug/L
7439-96-5	Manganese	440	15.0	2.00	ug/L
7439-98-7	Molybdenum	12.0B	50.0	3.75	ug/L
7440-09-7	Potassium	3340	500	100	ug/L
7782-49-2	Selenium	5.00B	40.0	4.34	ug/L
7440-23-5	Sodium	319000	1000	200	ug/L
7440-62-2	Vanadium	32.2	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	936	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	121	10.0	2.10	mg/L
14808-79-8	Sulfate	476	20.0	7.90	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	2.44	0.050	0.013	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.008B	0.010	0.003	mg/L-N

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	272	200	60.0	ug/L
7440-38-2	Arsenic	9.41B	10.0	2.53	ug/L
7440-39-3	Barium	32.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.69B	5.00	0.20	ug/L
7440-70-2	Calcium	120000	100	50.0	ug/L
7440-47-3	Chromium	1.95B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.37	ug/L
7439-89-6	Iron	127	100	40.0	ug/L
7439-95-4	Magnesium	57700	100	50.0	ug/L
7439-98-7	Molybdenum	9.72B	50.0	3.75	ug/L
7440-09-7	Potassium	9970	500	100	ug/L
7782-49-2	Selenium	9.90B	40.0	4.34	ug/L
7440-23-5	Sodium	181000	1000	200	ug/L
7440-32-6	Titanium	5.29B	100	1.20	ug/L
7440-62-2	Vanadium	98.8	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1100	200	60.0	ug/L
7440-38-2	Arsenic	6.10B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.51B	5.00	0.20	ug/L
7440-70-2	Calcium	122000	100	50.0	ug/L
7440-47-3	Chromium	4.41B	10.0	1.00	ug/L
7440-50-8	Copper	15.0	10.0	1.37	ug/L
7439-89-6	Iron	669	100	40.0	ug/L
7439-95-4	Magnesium	57600	100	50.0	ug/L
7439-96-5	Manganese	19.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	9.63B	50.0	3.75	ug/L
7440-02-0	Nickel	1.27B	40.0	0.96	ug/L
7440-09-7	Potassium	10300	500	100	ug/L
7782-49-2	Selenium	11.0B	40.0	4.34	ug/L
7440-23-5	Sodium	184000	1000	200	ug/L
7440-32-6	Titanium	10.6B	100	1.20	ug/L
7440-62-2	Vanadium	99.7	20.0	3.75	ug/L
7440-66-6	Zinc	15.6B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	48.9	10.0	0.11	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	244	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	32.0	10.0	2.80	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	900	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2050	100	21.0	mg/L
14808-79-8	Sulfate	1530	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	72.4B	200	60.0	ug/L
7440-43-9	Cadmium	1.11B	5.00	0.20	ug/L
7440-70-2	Calcium	286000	100	50.0	ug/L
7440-47-3	Chromium	2.38B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.38B	10.0	1.00	ug/L
7440-50-8	Copper	20.1	10.0	1.37	ug/L
7439-89-6	Iron	2820	100	40.0	ug/L
7439-95-4	Magnesium	188000	100	50.0	ug/L
7439-96-5	Manganese	436	15.0	2.00	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7440-62-2	Vanadium	64.3	20.0	3.75	ug/L
7440-66-6	Zinc	865	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1100000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	26.0	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.007B	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5500	10.0	10.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.75B	10.0	2.53	ug/L
7440-39-3	Barium	21.8	10.0	0.11	ug/L
7440-43-9	Cadmium	1.27B	5.00	0.20	ug/L
7440-70-2	Calcium	285000	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-47-3	Chromium	2.18B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.18B	10.0	1.00	ug/L
7440-50-8	Copper	18.0	10.0	1.37	ug/L
7439-89-6	Iron	2590	100	40.0	ug/L
7439-95-4	Magnesium	188000	100	50.0	ug/L
7439-96-5	Manganese	432	15.0	2.00	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7440-62-2	Vanadium	64.6	20.0	3.75	ug/L
7440-66-6	Zinc	615	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1110000	5000	1000	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	302	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	40.3	5.00	1.05	mg/L
14808-79-8	Sulfate	110	10.0	3.95	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	153B	200	60.0	ug/L
7440-38-2	Arsenic	6.33B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.65B	5.00	0.20	ug/L
7440-70-2	Calcium	41200	100	50.0	ug/L
7440-47-3	Chromium	15.9	10.0	1.00	ug/L
16065-83-1	Chromium (III)	15.9	10.0	1.00	ug/L
7440-50-8	Copper	814	10.0	1.37	ug/L
7439-89-6	Iron	168	100	40.0	ug/L
7439-92-1	Lead	1.79B	15.0	1.39	ug/L
7439-95-4	Magnesium	18700	100	50.0	ug/L
7439-96-5	Manganese	5.27B	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.4B	50.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-02-0	Nickel	6.94B	40.0	0.96	ug/L
7440-09-7	Potassium	2770	500	100	ug/L
7440-23-5	Sodium	65500	1000	200	ug/L
7440-62-2	Vanadium	78.6	20.0	3.75	ug/L
7440-66-6	Zinc	52.4	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	35.6	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.372	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	520	10.0	10.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	7.34B	10.0	2.53	ug/L
7440-39-3	Barium	33.8	10.0	0.11	ug/L
7440-43-9	Cadmium	1.01B	5.00	0.20	ug/L
7440-70-2	Calcium	44400	100	50.0	ug/L
7440-50-8	Copper	554	10.0	1.37	ug/L
7439-95-4	Magnesium	20200	100	50.0	ug/L
7439-96-5	Manganese	9.28B	15.0	2.00	ug/L
7439-98-7	Molybdenum	11.6B	50.0	3.75	ug/L
7440-09-7	Potassium	2870	500	100	ug/L
7440-23-5	Sodium	68800	1000	200	ug/L
7440-62-2	Vanadium	79.9	20.0	3.75	ug/L
7440-66-6	Zinc	38.2	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.99B	10.0	2.53	ug/L
7440-39-3	Barium	11.9	10.0	0.11	ug/L
7440-70-2	Calcium	66700	100	50.0	ug/L
7440-47-3	Chromium	1.98B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.98B	10.0	1.00	ug/L
7440-50-8	Copper	14.5	10.0	1.37	ug/L
7439-95-4	Magnesium	62400	100	50.0	ug/L
7439-98-7	Molybdenum	26.0B	50.0	3.75	ug/L
7440-09-7	Potassium	11400	500	100	ug/L
7782-49-2	Selenium	23.3B	40.0	4.34	ug/L
7440-62-2	Vanadium	58.1	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	633000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.6B	200	60.0	ug/L
7440-70-2	Calcium	65900	100	50.0	ug/L
7440-47-3	Chromium	2.31B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.31B	10.0	1.00	ug/L
7440-50-8	Copper	16.1	10.0	1.37	ug/L
7439-95-4	Magnesium	61800	100	50.0	ug/L
7439-96-5	Manganese	13.8B	15.0	2.00	ug/L
7439-98-7	Molybdenum	25.4B	50.0	3.75	ug/L
7440-02-0	Nickel	1.18B	40.0	0.96	ug/L
7440-09-7	Potassium	11400	500	100	ug/L
7782-49-2	Selenium	26.3B	40.0	4.34	ug/L
7440-62-2	Vanadium	59.0	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	628000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.3	10.0	0.11	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2670	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	133	1.0	0.21	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	715	50.0	10.5	mg/L
14808-79-8	Sulfate	994	100	39.5	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.59	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0396	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4710	200	60.0	ug/L
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-39-3	Barium	493	10.0	0.11	ug/L
7440-41-7	Beryllium	494	5.00	0.11	ug/L
7440-43-9	Cadmium	488	5.00	0.20	ug/L
7440-70-2	Calcium	75600	100	50.0	ug/L
7440-47-3	Chromium	472	10.0	1.00	ug/L
7440-48-4	Cobalt	484	10.0	1.00	ug/L
7440-50-8	Copper	512	10.0	1.37	ug/L
7439-89-6	Iron	4790	100	40.0	ug/L
7439-92-1	Lead	475	15.0	1.39	ug/L
7439-95-4	Magnesium	69900	100	50.0	ug/L
7439-96-5	Manganese	486	15.0	2.00	ug/L
7439-98-7	Molybdenum	520	50.0	3.75	ug/L
7440-02-0	Nickel	481	40.0	0.96	ug/L
7440-09-7	Potassium	21900	500	100	ug/L
7782-49-2	Selenium	531	40.0	4.34	ug/L
7440-22-4	Silver	495	10.0	0.60	ug/L
7440-28-0	Thallium	465	20.0	1.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	480	100	1.20	ug/L
7440-62-2	Vanadium	554	20.0	3.75	ug/L
7440-66-6	Zinc	511	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	682000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4930	200	60.0	ug/L
7440-36-0	Antimony	521	60.0	4.03	ug/L
7440-38-2	Arsenic	520	10.0	2.53	ug/L
7440-41-7	Beryllium	501	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	75500	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	497	10.0	1.00	ug/L
7440-50-8	Copper	522	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	486	15.0	1.39	ug/L
7439-95-4	Magnesium	70400	100	50.0	ug/L
7439-96-5	Manganese	499	15.0	2.00	ug/L
7439-98-7	Molybdenum	538	50.0	3.75	ug/L
7440-02-0	Nickel	493	40.0	0.96	ug/L
7440-09-7	Potassium	22600	500	100	ug/L
7782-49-2	Selenium	542	40.0	4.34	ug/L
7440-22-4	Silver	502	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	518	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	676000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	418	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.484	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10	0.050	0.013	mg/L-N

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.01	0.20	0.081	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.06	0.20	0.081	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0398	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4700	200	60.0	ug/L
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	526	10.0	2.53	ug/L
7440-39-3	Barium	495	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	74900	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	491	10.0	1.00	ug/L
7440-50-8	Copper	508	10.0	1.37	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	483	15.0	1.39	ug/L
7439-95-4	Magnesium	70700	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	488	40.0	0.96	ug/L
7440-09-7	Potassium	21800	500	100	ug/L
7782-49-2	Selenium	548	40.0	4.34	ug/L
7440-22-4	Silver	489	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	481	100	1.20	ug/L
7440-62-2	Vanadium	558	20.0	3.75	ug/L
7440-66-6	Zinc	510	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	677000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4980	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	491	5.00	0.20	ug/L
7440-70-2	Calcium	76400	100	50.0	ug/L
7440-47-3	Chromium	482	10.0	1.00	ug/L
7440-48-4	Cobalt	487	10.0	1.00	ug/L
7440-50-8	Copper	521	10.0	1.37	ug/L
7439-89-6	Iron	5060	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	72400	100	50.0	ug/L
7439-96-5	Manganese	497	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	482	40.0	0.96	ug/L
7440-09-7	Potassium	23000	500	100	ug/L
7782-49-2	Selenium	528	40.0	4.34	ug/L
7440-22-4	Silver	498	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	516	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	695000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	426	10.0	2.80	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.08	0.050	0.013	mg/L-N

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	3.89	0.20	0.081	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.15	0.20	0.081	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	**MWQ14-DUP**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	137	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2590	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	6.00B	60.0	4.03	ug/L
7440-38-2	Arsenic	3.95B	10.0	2.53	ug/L
7440-39-3	Barium	21.5	10.0	0.11	ug/L
7440-43-9	Cadmium	2.01B	5.00	0.20	ug/L
7440-70-2	Calcium	544000	100	50.0	ug/L
7440-47-3	Chromium	2.58B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.58B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.10B	10.0	1.00	ug/L
7440-50-8	Copper	21.3	10.0	1.37	ug/L
7439-89-6	Iron	71.1B	100	40.0	ug/L
7439-95-4	Magnesium	306000	100	50.0	ug/L
7439-96-5	Manganese	934	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.4B	50.0	3.75	ug/L
7440-09-7	Potassium	15700	500	100	ug/L
7440-62-2	Vanadium	64.1	20.0	3.75	ug/L
7440-66-6	Zinc	2190	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2780000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	261	200	60.0	ug/L
7440-36-0	Antimony	20.3B	60.0	4.03	ug/L
7440-43-9	Cadmium	1.93B	5.00	0.20	ug/L
7440-70-2	Calcium	556000	100	50.0	ug/L
7440-47-3	Chromium	3.38B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.38B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.23B	10.0	1.00	ug/L
7440-50-8	Copper	23.2	10.0	1.37	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	241	100	40.0	ug/L
7439-95-4	Magnesium	311000	100	50.0	ug/L
7439-96-5	Manganese	967	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.0B	50.0	3.75	ug/L
7440-09-7	Potassium	16200	500	100	ug/L
7440-32-6	Titanium	1.42B	100	1.20	ug/L
7440-62-2	Vanadium	64.0	20.0	3.75	ug/L
7440-66-6	Zinc	2370	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2970000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	26.3	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6010	200	42.0	mg/L
14808-79-8	Sulfate	1630	400	158	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	55.7	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	11900	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.33B	60.0	4.03	ug/L
7440-39-3	Barium	21.8	10.0	0.11	ug/L
7440-43-9	Cadmium	2.08B	5.00	0.20	ug/L
7440-70-2	Calcium	554000	100	50.0	ug/L
7440-47-3	Chromium	2.35B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.35B	10.0	1.00	ug/L
7440-50-8	Copper	19.9	10.0	1.37	ug/L
7439-89-6	Iron	66.2B	100	40.0	ug/L
7439-95-4	Magnesium	312000	100	50.0	ug/L
7439-96-5	Manganese	955	15.0	2.00	ug/L
7439-98-7	Molybdenum	16.6B	50.0	3.75	ug/L
7440-09-7	Potassium	16000	500	100	ug/L
7440-62-2	Vanadium	64.2	20.0	3.75	ug/L
7440-66-6	Zinc	2240	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2850000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	285	200	60.0	ug/L
7440-36-0	Antimony	4.80B	60.0	4.03	ug/L
7440-43-9	Cadmium	1.93B	5.00	0.20	ug/L
7440-70-2	Calcium	574000	100	50.0	ug/L
7440-47-3	Chromium	3.42B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.42B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.12B	10.0	1.00	ug/L
7440-50-8	Copper	21.8	10.0	1.37	ug/L
7439-89-6	Iron	271	100	40.0	ug/L
7439-95-4	Magnesium	321000	100	50.0	ug/L
7439-96-5	Manganese	994	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.3B	50.0	3.75	ug/L
7440-09-7	Potassium	16800	500	100	ug/L
7440-32-6	Titanium	1.73B	100	1.20	ug/L
7440-62-2	Vanadium	63.4	20.0	3.75	ug/L
7440-66-6	Zinc	2410	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	3050000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	27.4	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6090	200	42.0	mg/L
14808-79-8	Sulfate	1480	400	158	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.9	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	12000	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.071B	0.100	0.021	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.62B	10.0	2.53	ug/L
7440-43-9	Cadmium	0.25B	5.00	0.20	ug/L
7440-70-2	Calcium	135	100	50.0	ug/L
7440-50-8	Copper	2.40B	10.0	1.37	ug/L
7439-96-5	Manganese	2.79B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-09-7	Potassium	147B	500	100	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	216B	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	4.73B	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	2.36B	10.0	0.11	ug/L
7440-43-9	Cadmium	0.41B	5.00	0.20	ug/L
7440-70-2	Calcium	137	100	50.0	ug/L
7440-50-8	Copper	2.69B	10.0	1.37	ug/L
7439-96-5	Manganese	3.52B	15.0	2.00	ug/L
7440-02-0	Nickel	1.22B	40.0	0.96	ug/L
7440-09-7	Potassium	260B	500	100	ug/L
7440-66-6	Zinc	2.79B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	404B	1000	200	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	107	5.00	1.05	mg/L
14808-79-8	Sulfate	216	10.0	3.95	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.95B	10.0	2.53	ug/L
7440-39-3	Barium	20.8	10.0	0.11	ug/L
7440-70-2	Calcium	69200	100	50.0	ug/L
7440-50-8	Copper	9.01B	10.0	1.37	ug/L
7439-89-6	Iron	566	100	40.0	ug/L
7439-92-1	Lead	1.90B	15.0	1.39	ug/L
7439-95-4	Magnesium	33700	100	50.0	ug/L
7439-96-5	Manganese	158	15.0	2.00	ug/L
7440-09-7	Potassium	5560	500	100	ug/L
7782-49-2	Selenium	8.02B	40.0	4.34	ug/L
7440-23-5	Sodium	67800	1000	200	ug/L
7440-62-2	Vanadium	59.3	20.0	3.75	ug/L
7440-66-6	Zinc	4.65B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	69.7B	200	60.0	ug/L
7440-38-2	Arsenic	5.89B	10.0	2.53	ug/L
7440-39-3	Barium	24.1	10.0	0.11	ug/L
7440-70-2	Calcium	69200	100	50.0	ug/L
7440-47-3	Chromium	2.02B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.02B	10.0	1.00	ug/L
7440-48-4	Cobalt	1.74B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.37	ug/L
7439-89-6	Iron	7450	100	40.0	ug/L
7439-92-1	Lead	2.50B	15.0	1.39	ug/L
7439-95-4	Magnesium	33800	100	50.0	ug/L
7439-96-5	Manganese	265	15.0	2.00	ug/L
7440-02-0	Nickel	1.09B	40.0	0.96	ug/L
7440-09-7	Potassium	5470	500	100	ug/L
7782-49-2	Selenium	9.06B	40.0	4.34	ug/L
7440-23-5	Sodium	69600	1000	200	ug/L
7440-62-2	Vanadium	69.9	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	93.6	20.0	2.72	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.013	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**658**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.408**	**0.010**	**0.003**	**mg/L-N**

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**129**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:06	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:11	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:40	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.70J**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**13.5**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**31.1**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.44J**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**30200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.65J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.65J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.4**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**33100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**3.84J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6210**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**81700**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:40	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**104**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 15:17	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**15.9**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**27.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.83J**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**29600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.15J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.15J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**6.40J**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**32300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.54J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6210**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**80300**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**100**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**430**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	**MWQ-3**	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:51	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.738**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:44	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 17:14	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**68.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**150**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**145**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:06	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:13	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:14	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:46	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**11.0**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**50.4**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.36B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3310**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**55900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:46	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.24B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:32	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.07B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**10.5**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**46.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.94B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.83B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.61B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19200**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3310**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**56400**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**78.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.38B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**300**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	**MWQ-4**	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:14	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.43**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:45	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/10/2011 17:32	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**17.6**	**1.00**	**0.210**	**mg/L**
14808-79-8	**Sulfate**	**59.0**	**2.00**	**0.790**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**177**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:16	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:18	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:52	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**9.27B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**35.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.76B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42500**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.48B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.48B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.64B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**23100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3260**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**65200**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:52	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**84.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.88B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:38	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.74B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**7.43B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**30.3**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.10B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40800**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.59B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**21600**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3240**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**63600**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**80.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**374**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	**MWQ-5**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:18	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.53**	**0.100**	**0.026**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:46	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 17:49	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.8**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**90.8**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**175**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:19	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:21	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:58	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.82B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**34.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.78B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**41600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.35B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.35B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**4.06B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**22000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.01B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3130**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**64000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:58	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**81.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.77B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:18	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**8.16B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**31.1**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.96B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**42000**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.54B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**5.28B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**22300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3180**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**64800**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**83.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**380**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	**MWQ-5-DUP**	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:19	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.19**	**0.100**	**0.026**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:48	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:07	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.5**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**91.5**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**170**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:09	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:22	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:24	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:05	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**10.2**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**38.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.72B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.42B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.42B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.09B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**19700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2120**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**57900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:05	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**77.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.87B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:24	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.16B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**34.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.96B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**40600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.23B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.42B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**19300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2610**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**57900**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**78.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**5.61B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**352**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	**MWQ-6**	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:20	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.39**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:49	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:24	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**21.4**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**85.5**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**160**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:10	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:25	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 11:30	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:11	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.80B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**33.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.87B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**57600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.93B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**4.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**24500**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2690**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**72000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 15:11	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 13:30	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.98B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**8.35B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**29.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.35B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**57200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.34B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.34B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.81B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**3.40B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**24600**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2650**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**6.12B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**72700**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**480**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	**MWQ-7**	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/04/2011 15:21	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.31**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:50	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 19:17	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**59.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**156**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**147**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:19	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:11	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:01	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09210B**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:55	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:48	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**8.34B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**124**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.73B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**53600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**1.54B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**40400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**3.77B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**5950**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**21100**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:48	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**3.30B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 11:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.83B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**123**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.86B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54300**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.07B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	**Lead**	**2.43B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**40500**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.87B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6090**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**21500**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.86B**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**390**	**10.0**	**10.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	**MWQ-10**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:23	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**7.07**	**0.200**	**0.052**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:51	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:35	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**29.3**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**60.6**	**4.00**	**1.58**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**216**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:13	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**5.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:14	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:03	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.58**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:57	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.65**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4940**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**511**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**536**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**630**	**10.0**	**0.11**	**ug/L**
7440-41-7	**Beryllium**	**508**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**504**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**60000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**499**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**471**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**495**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5040**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**505**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**47300**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**504**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**514**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**456**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**16300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**510**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**501**	**10.0**	**0.60**	**ug/L**
7440-23-5	**Sodium**	**41300**	**1000**	**200**	**ug/L**
7440-28-0	**Thallium**	**519**	**20.0**	**1.75**	**ug/L**
7440-32-6	**Titanium**	**498**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 13:54	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	571	20.0	3.75	ug/L
7440-66-6	Zinc	500	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4670	200	60.0	ug/L
7440-36-0	Antimony	501	60.0	4.03	ug/L
7440-38-2	Arsenic	522	10.0	2.53	ug/L
7440-39-3	Barium	596	10.0	0.11	ug/L
7440-41-7	Beryllium	487	5.00	0.11	ug/L
7440-43-9	Cadmium	480	5.00	0.20	ug/L
7440-70-2	Calcium	57100	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	459	10.0	1.00	ug/L
7440-50-8	Copper	468	10.0	1.37	ug/L
7439-89-6	Iron	4690	100	40.0	ug/L
7439-92-1	Lead	495	15.0	1.39	ug/L
7439-95-4	Magnesium	43300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	497	50.0	3.75	ug/L
7440-02-0	Nickel	444	40.0	0.96	ug/L
7440-09-7	Potassium	15100	500	100	ug/L
7782-49-2	Selenium	505	40.0	4.34	ug/L
7440-22-4	Silver	481	10.0	0.60	ug/L
7440-23-5	Sodium	39100	1000	200	ug/L
7440-28-0	Thallium	493	20.0	1.75	ug/L
7440-32-6	Titanium	475	100	1.20	ug/L
7440-62-2	Vanadium	545	20.0	3.75	ug/L
7440-66-6	Zinc	480	20.0	2.72	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:24	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.6	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	**MWQ-10-MS**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:55	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.468**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:52	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**78.1**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**161**	**4.00**	**1.58**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:14	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**535**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:15	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0375**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A Dissolved	1	05/05/2011 11:05	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.30**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455678	SW-846 7470A	1	05/05/2011 10:58	CLB	455716

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**5.29**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4870**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**523**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**544**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**626**	**10.0**	**0.11**	**ug/L**
7440-41-7	**Beryllium**	**504**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**499**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**59400**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**496**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**479**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**490**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**4940**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**513**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**46200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**500**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**524**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**463**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**16200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**527**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**499**	**10.0**	**0.60**	**ug/L**
7440-23-5	**Sodium**	**41800**	**1000**	**200**	**ug/L**
7440-28-0	**Thallium**	**524**	**20.0**	**1.75**	**ug/L**
7440-32-6	**Titanium**	**497**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455676	SW-846 3010A	1	05/10/2011 14:01	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	531	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/04/2011 16:30	455675	SW-846 3005 Dissolved	1	05/10/2011 12:07	CLB	455988

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4830	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	538	10.0	2.53	ug/L
7440-39-3	Barium	620	10.0	0.11	ug/L
7440-41-7	Beryllium	503	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	60600	100	50.0	ug/L
7440-47-3	Chromium	486	10.0	1.00	ug/L
7440-48-4	Cobalt	471	10.0	1.00	ug/L
7440-50-8	Copper	484	10.0	1.37	ug/L
7439-89-6	Iron	4890	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	47000	100	50.0	ug/L
7439-96-5	Manganese	495	15.0	2.00	ug/L
7439-98-7	Molybdenum	506	50.0	3.75	ug/L
7440-02-0	Nickel	456	40.0	0.96	ug/L
7440-09-7	Potassium	16300	500	100	ug/L
7782-49-2	Selenium	519	40.0	4.34	ug/L
7440-22-4	Silver	496	10.0	0.60	ug/L
7440-23-5	Sodium	41100	1000	200	ug/L
7440-28-0	Thallium	503	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	495	20.0	2.72	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:25	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	**MWQ-10-MSD**	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:56	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.470**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 20:10	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**80.9**	**2.00**	**0.420**	**mg/L**
14808-79-8	**Sulfate**	**160**	**4.00**	**1.58**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**531**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:16	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0376**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	**MWQ-10-DUP**	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**388**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**220**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:27	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:49	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**187000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.53B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**52.8B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**124000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**82.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**20.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.60B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**11600**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**73.5**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**394**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 20:17	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2170000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:05	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**34.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.00B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**28.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.49B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**204000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.25B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**135000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**50.1**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**22.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.89B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**12600**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**71.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**426**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 17:29	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2260000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7120**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:28	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.244**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:06	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/10/2011 23:42	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3310**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1350**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	**MWQ-2**	Water	05/05/2011 09:26	05/06/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**83.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:36	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**3.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:10	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:38	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:40	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:23	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**37300**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**7.72B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**147**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**16200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**426**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**11.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3260**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**315000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:23	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**29.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**7.64B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:22	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**40.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:49	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**37.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**38500**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**6.97B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**142**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**17400**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**440**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**12.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**3340**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.00B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**319000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**32.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**936**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:01	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.309**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:18	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.011**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 18:29	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**342**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**233**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**147**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:39	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	**MWQ-22**	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:30	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:41	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:43	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:30	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1100**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**6.10B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.51B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**122000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.41B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**669**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**57600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**19.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**9.63B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.27B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**11.0B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**184000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**10.6B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:30	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**99.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**15.6B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:30	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**48.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**272**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**9.41B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**32.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.69B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**120000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.95B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**127**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**57700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**9.72B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**9970**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**9.90B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**181000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**5.29B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**98.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**900**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/12/2011 16:08	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**2.44**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:22	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.008B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	05/12/2011 19:04	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**121**	**10.0**	**2.10**	**mg/L**
14808-79-8	**Sulfate**	**476**	**20.0**	**7.90**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**244**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:40	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**32.0**	**10.0**	**2.80**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	**MWQ-21**	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:31	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:48	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:49	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:37	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**72.4B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.11B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**286000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.38B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**20.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**2820**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**188000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**436**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**64.3**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:37	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**865**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/26/2011 00:14	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1100000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:37	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**26.0**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.75B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**21.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.27B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**285000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.18B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.18B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**18.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**2590**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**188000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**432**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**615**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:48	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1110000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5500**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:02	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:20	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.007B**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/16/2011 20:45	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2050**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1530**	**200**	**79.0**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	**MWQ-19**	Water	05/12/2011 09:50	05/13/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**302**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:04	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:57	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:51	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:53	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:44	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**153B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**6.33B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.65B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**41200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**15.9**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**15.9**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**814**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**168**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.79B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**18700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.27B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**6.94B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**2770**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**65500**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:44	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**78.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**52.4**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:34	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**35.6**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:38	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**7.34B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**33.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.01B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**44400**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**554**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**20200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**9.28B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**11.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2870**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**68800**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**38.2**	**20.0**	**2.72**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**520**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:05	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.372**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:24	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/16/2011 21:55	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**40.3**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**110**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**161**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:05	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	**MWQ-18**	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:58	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:34	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:24	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:20	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**60.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**65900**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.31B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**16.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**61800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**13.8B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**25.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.18B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**11400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**26.3B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**59.0**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:20	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:38	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**628000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:13	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**15.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.99B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**11.9**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**66700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.98B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.98B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**14.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**62400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**26.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**11400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**23.3B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**58.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:13	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**633000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2670**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:31	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.59**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:46	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/16/2011 21:38	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**715**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**994**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	**MWQ-14**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**133**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:59	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:35	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.01**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:29	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.06**	**0.20**	**0.081**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:27	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4930	200	60.0	ug/L
7440-36-0	Antimony	521	60.0	4.03	ug/L
7440-38-2	Arsenic	520	10.0	2.53	ug/L
7440-41-7	Beryllium	501	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	75500	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	497	10.0	1.00	ug/L
7440-50-8	Copper	522	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	486	15.0	1.39	ug/L
7439-95-4	Magnesium	70400	100	50.0	ug/L
7439-96-5	Manganese	499	15.0	2.00	ug/L
7439-98-7	Molybdenum	538	50.0	3.75	ug/L
7440-02-0	Nickel	493	40.0	0.96	ug/L
7440-09-7	Potassium	22600	500	100	ug/L
7782-49-2	Selenium	542	40.0	4.34	ug/L
7440-22-4	Silver	502	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	518	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:45	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	676000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:21	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4710	200	60.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-39-3	Barium	493	10.0	0.11	ug/L
7440-41-7	Beryllium	494	5.00	0.11	ug/L
7440-43-9	Cadmium	488	5.00	0.20	ug/L
7440-70-2	Calcium	75600	100	50.0	ug/L
7440-47-3	Chromium	472	10.0	1.00	ug/L
7440-48-4	Cobalt	484	10.0	1.00	ug/L
7440-50-8	Copper	512	10.0	1.37	ug/L
7439-89-6	Iron	4790	100	40.0	ug/L
7439-92-1	Lead	475	15.0	1.39	ug/L
7439-95-4	Magnesium	69900	100	50.0	ug/L
7439-96-5	Manganese	486	15.0	2.00	ug/L
7439-98-7	Molybdenum	520	50.0	3.75	ug/L
7440-02-0	Nickel	481	40.0	0.96	ug/L
7440-09-7	Potassium	21900	500	100	ug/L
7782-49-2	Selenium	531	40.0	4.34	ug/L
7440-22-4	Silver	495	10.0	0.60	ug/L
7440-28-0	Thallium	465	20.0	1.75	ug/L
7440-32-6	Titanium	480	100	1.20	ug/L
7440-62-2	Vanadium	554	20.0	3.75	ug/L
7440-66-6	Zinc	511	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:20	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	682000	5000	1000	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:32	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	**MWQ14-MS**	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:48	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.484**	**0.010**	**0.003**	**mg/L-N**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**418**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:55	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0396**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:37	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.15**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:30	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**3.89**	**0.20**	**0.081**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 15:34	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4980	200	60.0	ug/L
7440-36-0	Antimony	510	60.0	4.03	ug/L
7440-38-2	Arsenic	519	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	491	5.00	0.20	ug/L
7440-70-2	Calcium	76400	100	50.0	ug/L
7440-47-3	Chromium	482	10.0	1.00	ug/L
7440-48-4	Cobalt	487	10.0	1.00	ug/L
7440-50-8	Copper	521	10.0	1.37	ug/L
7439-89-6	Iron	5060	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	72400	100	50.0	ug/L
7439-96-5	Manganese	497	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	482	40.0	0.96	ug/L
7440-09-7	Potassium	23000	500	100	ug/L
7782-49-2	Selenium	528	40.0	4.34	ug/L
7440-22-4	Silver	498	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	565	20.0	3.75	ug/L
7440-66-6	Zinc	516	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	5	05/25/2011 23:52	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	695000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 14:27	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	500	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4700	200	60.0	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 13:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	514	60.0	4.03	ug/L
7440-38-2	Arsenic	526	10.0	2.53	ug/L
7440-39-3	Barium	495	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	494	5.00	0.20	ug/L
7440-70-2	Calcium	74900	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	491	10.0	1.00	ug/L
7440-50-8	Copper	508	10.0	1.37	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	483	15.0	1.39	ug/L
7439-95-4	Magnesium	70700	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	528	50.0	3.75	ug/L
7440-02-0	Nickel	488	40.0	0.96	ug/L
7440-09-7	Potassium	21800	500	100	ug/L
7782-49-2	Selenium	548	40.0	4.34	ug/L
7440-22-4	Silver	489	10.0	0.60	ug/L
7440-28-0	Thallium	472	20.0	1.75	ug/L
7440-32-6	Titanium	481	100	1.20	ug/L
7440-62-2	Vanadium	558	20.0	3.75	ug/L
7440-66-6	Zinc	510	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	5	05/25/2011 22:27	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	677000	5000	1000	ug/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:34	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.08	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	**MWQ14-MSD**	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:49	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.479**	**0.010**	**0.003**	**mg/L-N**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**426**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:56	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0398**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	**MWQ14-DUP**	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**2590**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**137**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:54	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:56	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:51	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**261**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**20.3B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.93B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**556000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.38B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.23B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**23.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**241**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**311000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**967**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16200**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.42B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**64.0**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:51	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**2370**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	25	05/26/2011 00:21	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2970000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:43	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**26.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:45	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**6.00B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**3.95B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**21.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**2.01B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**544000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.58B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.58B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.10B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**21.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**71.1B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**306000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**934**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**15700**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:45	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2190**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	25	05/25/2011 22:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2780000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**11900**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:34	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.006B**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:19	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/19/2011 23:50	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6010**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**1630**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	**MWQ-20**	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**55.7**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:16	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:12	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 18:57	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 18:59	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**285**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**4.80B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**1.93B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**574000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.42B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.42B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.12B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**21.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**271**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**321000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**994**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16800**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.73B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**63.4**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 16:57	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**2410**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	25	05/26/2011 00:28	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**3050000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:50	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**27.4**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.33B**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**21.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**2.08B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**554000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.35B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.35B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**19.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**66.2B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**312000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**955**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**16000**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:52	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**64.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2240**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	25	05/25/2011 23:04	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2850000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**12000**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:37	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.006B**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:23	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/20/2011 00:43	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**6090**	**200**	**42.0**	**mg/L**
14808-79-8	**Sulfate**	**1480**	**400**	**158**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	**MWQ-20 DUP**	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**56.9**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:17	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:13	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A Dissolved	1	05/26/2011 19:01	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/25/2011 11:20	457095	SW-846 7470A	1	05/26/2011 19:02	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 17:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.62B**	**10.0**	**2.53**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.25B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**135**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**2.40B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**2.79B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**147B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/24/2011 17:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/27/2011 17:57	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**4.73B**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456691	SW-846 3010A	1	05/31/2011 14:28	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**216B**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:58	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**2.36B**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.41B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**137**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**2.69B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**3.52B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.22B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**260B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/24/2011 14:58	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**2.79B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 15:00	456692	SW-846 3005 Dissolved	1	05/31/2011 14:21	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**404B**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	10.0	mg/L

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:29	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:24	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 01:54	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.071B**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	**EB2**	Water	05/18/2011 10:30	05/19/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:47	DJH	456757

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:08	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:15	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:33	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 15:15	456841	SW-846 7470A Dissolved	1	05/26/2011 18:19	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 15:15	456841	SW-846 7470A	1	05/26/2011 18:13	AJW	457240

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456848	SW-846 3010A	1	05/26/2011 18:12	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**69.7B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**5.89B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**24.1**	**10.0**	**0.11**	**ug/L**
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**69200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.02B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.02B**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**1.74B**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**13.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**7450**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**2.50B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**33800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**265**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.09B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**5470**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**9.06B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**69600**	**1000**	**200**	**ug/L**
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.9**	**20.0**	**3.75**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456848	SW-846 3010A	1	05/31/2011 15:55	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-66-6	**Zinc**	**93.6**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/26/2011 16:50	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.95B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**20.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**69200**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/26/2011 16:50	CLB	457201

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.01B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**566**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.90B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**33700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**158**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**5560**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**8.02B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-23-5	**Sodium**	**67800**	**1000**	**200**	**ug/L**
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**59.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.65B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/23/2011 10:35	456846	SW-846 3005 Dissolved	1	05/31/2011 14:48	CLB	457428

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**658**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:25	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.013**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	**MWL6**	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:20	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.408**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/20/2011 01:01	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**107**	**5.00**	**1.05**	**mg/L**
14808-79-8	**Sulfate**	**216**	**10.0**	**3.95**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:23	DJH	456752

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**129**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:09	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:14	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

Inorganics Quality Control Summary

Analytical Batch	455716	**Client ID**	MB455678			LCS455678		
Prep Batch	455678	**GCAL ID**	944211			944212		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/04/2011 16:30			05/04/2011 16:30		
		Analytical Date	05/05/2011 10:52			05/05/2011 10:53		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.83	117	80 - 120

Analytical Batch	455716	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch	455678	**GCAL ID**	21105042607			21105042608			21105042609			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/04/2011 16:30			05/04/2011 16:30			05/04/2011 16:30			
	Dissolved	**Analytical Date**	05/05/2011 11:01			05/05/2011 11:03			05/05/2011 11:05			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.09210	0.081	5.00	5.58	110	80 - 120	5.30	104	5	30

Analytical Batch	456386	**Client ID**	MB456158			LCS456158		
Prep Batch	456158	**GCAL ID**	946277			946278		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/16/2011 14:17			05/16/2011 14:19		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	4.99	100	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456386	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	456158	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	7470A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
	Dissolved	**Analytical Date**	05/16/2011 14:20			05/16/2011 14:22			05/16/2011 14:23		
		Matrix	Water			Water			Water		
SW-846 7470A Dissolved			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.081	5.00	4.66	93	80 - 120	4.80	96	3	30

Analytical Batch	457240	**Client ID**	MB456841			LCS456841		
Prep Batch	456841	**GCAL ID**	949550			949551		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/23/2011 15:15			05/23/2011 15:15		
		Analytical Date	05/26/2011 18:09			05/26/2011 18:11		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.46	109	80 - 120

Analytical Batch	457240	**Client ID**	MB457095			LCS457095		
Prep Batch	457095	**GCAL ID**	950607			950608		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	05/25/2011 11:20			05/25/2011 11:20		
		Analytical Date	05/26/2011 18:21			05/26/2011 18:22		
		Matrix	Water			Water		
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.081U	0.081	5.00	5.48	110	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457240	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	457095	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20			05/25/2011 11:20			
	Dissolved	**Analytical Date**	05/26/2011 18:34		05/26/2011 18:35			05/26/2011 18:37			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.01	80	80 - 120	4.15	83	4	30

Analytical Batch	457240	**Client ID**	MWL6		948703MS			948703MSD			
Prep Batch	456841	**GCAL ID**	21105190401		949552			949553			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15			05/23/2011 15:15			
		Analytical Date	05/26/2011 18:13		05/26/2011 18:14			05/26/2011 18:16			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	5.62	112	75 - 125	5.58	112	0.6	30

Inorganics Quality Control Summary

Analytical Batch	455716	**Client ID**	MB455678		LCS455678		
Prep Batch	455678	**GCAL ID**	944211		944212		
Prep Method	SW-846 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/04/2011 16:30		05/04/2011 16:30		
		Analytical Date	05/05/2011 10:52		05/05/2011 10:53		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.83	117	80 - 120

Analytical Batch	455716	**Client ID**	MWQ-10		MWQ-10-MS			MWQ-10-MSD				
Prep Batch	455678	**GCAL ID**	21105042607		21105042608			21105042609				
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE		MS			MSD				
		Prep Date	05/04/2011 16:30		05/04/2011 16:30			05/04/2011 16:30				
		Analytical Date	05/05/2011 10:55		05/05/2011 10:57			05/05/2011 10:58				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.081	5.00	5.65	113	80 - 120	5.29	106	7	30	

Analytical Batch	456383	**Client ID**	MB455984		LCS455984		
Prep Batch	455984	**GCAL ID**	945531		945532		
Prep Method	SW-846 7470A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 13:39		05/16/2011 13:41		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.89	98	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456383	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455984	**GCAL ID**	21105060810		21105060811			21105060812			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30			
		Analytical Date	05/16/2011 13:43		05/16/2011 13:44			05/16/2011 13:46			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.78	96	80 - 120	4.80	96	0.3	30

Analytical Batch	457240	**Client ID**	MB456841		LCS456841		
Prep Batch	456841	**GCAL ID**	949550		949551		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15		
		Analytical Date	05/26/2011 18:09		05/26/2011 18:11		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.46	109	80 - 120

Analytical Batch	457240	**Client ID**	MB457095		LCS457095		
Prep Batch	457095	**GCAL ID**	950607		950608		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20		
		Analytical Date	05/26/2011 18:21		05/26/2011 18:22		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	5.48	110	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457240	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	457095	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/25/2011 11:20		05/25/2011 11:20			05/25/2011 11:20			
		Analytical Date	05/26/2011 18:24		05/26/2011 18:29			05/26/2011 18:30			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.06	81	80 - 120	3.89	**78***	4	30

Analytical Batch	457240	**Client ID**	MWL6		948703MS			948703MSD			
Prep Batch	456841	**GCAL ID**	21105190401		949552			949553			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	05/23/2011 15:15		05/23/2011 15:15			05/23/2011 15:15			
		Analytical Date	05/26/2011 18:13		05/26/2011 18:14			05/26/2011 18:16			
		Matrix	Water		Water			Water			
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	5.62	112	80 - 120	5.58	112	0.6	30

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MB455676	LCS455676
Prep Batch	455676	**GCAL ID**	944205	944206
Prep Method	SW-846 3010A	**Sample Type**	Method Blank	LCS
		Prep Date	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 13:36	05/10/2011 13:42
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4780	96	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	488	98	80 - 120
7440-38-2	Arsenic	4.59J	2.53	500	504	101	80 - 120
7440-39-3	Barium	5.66J	0.11	500	497	99	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	483	97	80 - 120
7440-43-9	Cadmium	0.49J	0.20	500	493	99	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4940	99	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	487	97	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	495	99	80 - 120
7440-50-8	Copper	1.37U	1.37	500	484	97	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4890	98	80 - 120
7439-92-1	Lead	1.39U	1.39	500	503	101	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4930	99	80 - 120
7439-96-5	Manganese	2.70J	2.00	500	491	98	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	493	99	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	483	97	80 - 120
7440-09-7	Potassium	100U	100	10000	9870	99	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	497	99	80 - 120
7440-22-4	Silver	0.60U	0.60	500	483	97	80 - 120
7440-23-5	Sodium	200U	200	20000	19200	96	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	508	102	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	483	97	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	488	98	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MWQ-10	MWQ-10-MS	MWQ-10-MSD
Prep Batch	455676	**GCAL ID**	21105042607	21105042608	21105042609
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 13:48	05/10/2011 13:54	05/10/2011 14:01
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4940	99	80 - 120	4870	97	1	30
7440-36-0	Antimony	0.0	4.03	500	511	102	80 - 120	523	105	2	30
7440-38-2	Arsenic	8.34	2.53	500	536	106	80 - 120	544	107	2	30
7440-39-3	Barium	124	0.11	500	630	101	80 - 120	626	100	0.8	30
7440-41-7	Beryllium	0.0	0.11	500	508	102	80 - 120	504	101	0.8	30
7440-43-9	Cadmium	0.73	0.20	500	504	101	80 - 120	499	100	1	30
7440-70-2	Calcium	53600	50.0	5000	60000	**129***	80 - 120	59400	117	1	30
7440-47-3	Chromium	0.46	1.00	500	499	100	80 - 120	496	99	0.7	30
7440-48-4	Cobalt	0.0	1.00	500	471	94	80 - 120	479	96	1	30
7440-50-8	Copper	12.3	1.37	500	495	96	80 - 120	490	96	1	30
7439-89-6	Iron	0.0	40.0	5000	5040	101	80 - 120	4940	99	2	30
7439-92-1	Lead	1.54	1.39	500	505	101	80 - 120	513	102	2	30
7439-95-4	Magnesium	40400	50.0	5000	47300	**138***	80 - 120	46200	116	2	30
7439-96-5	Manganese	1.32	2.00	500	504	101	80 - 120	500	100	0.8	30
7439-98-7	Molybdenum	3.77	3.75	500	514	102	80 - 120	524	104	2	30
7440-02-0	Nickel	0.0	0.96	500	456	91	80 - 120	463	93	1	30
7440-09-7	Potassium	5950	100	10000	16300	104	80 - 120	16200	102	0.9	30
7782-49-2	Selenium	0.0	4.34	500	510	102	80 - 120	527	105	3	30
7440-22-4	Silver	0.0	0.60	500	501	100	80 - 120	499	100	0.4	30
7440-23-5	Sodium	21100	200	20000	41300	101	80 - 120	41800	104	1	30
7440-28-0	Thallium	0.0	1.75	500	519	104	80 - 120	524	105	0.9	30
7440-32-6	Titanium	0.0	1.20	500	498	100	80 - 120	497	99	0.2	30
7440-62-2	Vanadium	68.8	3.75	500	571	100	80 - 120	565	99	1	30
7440-66-6	Zinc	3.30	2.72	500	500	99	80 - 120	531	106	6	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455827	LCS455827
Prep Batch	455827	**GCAL ID**	944933	944934
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 19:49	05/24/2011 19:57
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4700	94	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	463	93	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	455	91	80 - 120
7440-39-3	Barium	1.87J	0.11	500	479	96	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	466	93	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	466	93	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4640	93	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	473	95	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	468	94	80 - 120
7440-50-8	Copper	1.37U	1.37	500	471	94	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4610	92	80 - 120
7439-92-1	Lead	1.39U	1.39	500	467	93	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4590	92	80 - 120
7439-96-5	Manganese	3.24J	2.00	500	474	95	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	474	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	477	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	464	93	80 - 120
7440-22-4	Silver	0.60U	0.60	500	470	94	80 - 120
7440-23-5	Sodium	200U	200	20000	18100	91	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	466	93	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	467	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456691	LCS456691
Prep Batch	456691	**GCAL ID**	948867	948868
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 15:05	05/24/2011 15:13
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4850	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	470	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	474	95	80 - 120
7440-39-3	Barium	1.43J	0.11	500	487	97	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	478	96	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	481	96	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4810	96	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	484	97	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	478	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	481	96	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4830	97	80 - 120
7439-92-1	Lead	1.39U	1.39	500	477	95	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4840	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	484	97	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	477	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	490	98	80 - 120
7440-09-7	Potassium	100U	100	10000	9720	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	479	96	80 - 120
7440-22-4	Silver	0.60U	0.60	500	482	96	80 - 120
7440-23-5	Sodium	200U	200	20000	20500	102	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	477	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	478	96	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	479	96	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	485	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MWQ-14	MWQ14-MS	MWQ14-MSD
Prep Batch	456691	**GCAL ID**	21105042616	21105042617	21105042618
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 15:20	05/24/2011 15:27	05/24/2011 15:34
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	60.6	60.0	5000	4930	97	80 - 120	4980	98	1	30
7440-36-0	Antimony	0.0	4.03	500	521	104	80 - 120	510	102	2	30
7440-38-2	Arsenic	0.0	2.53	500	520	104	80 - 120	519	104	0.2	30
7440-41-7	Beryllium	0.0	0.11	500	501	100	80 - 120	498	100	0.6	30
7440-43-9	Cadmium	0.0	0.20	500	494	99	80 - 120	491	98	0.5	30
7440-70-2	Calcium	65900	50.0	5000	75500	**191***	80 - 120	76400	**210***	1	30
7440-47-3	Chromium	2.31	1.00	500	483	96	80 - 120	482	96	0.2	30
7440-48-4	Cobalt	0.0	1.00	500	497	99	80 - 120	487	97	2	30
7440-50-8	Copper	16.1	1.37	500	522	101	80 - 120	521	101	0.3	30
7439-89-6	Iron	0.0	40.0	5000	5010	100	80 - 120	5060	101	1	30
7439-92-1	Lead	0.0	1.39	500	486	97	80 - 120	478	96	2	30
7439-95-4	Magnesium	61800	50.0	5000	70400	**173***	80 - 120	72400	**213***	3	30
7439-96-5	Manganese	13.8	2.00	500	499	97	80 - 120	497	97	0.4	30
7439-98-7	Molybdenum	25.4	3.75	500	538	102	80 - 120	528	100	2	30
7440-02-0	Nickel	1.18	0.96	500	493	98	80 - 120	482	96	2	30
7440-09-7	Potassium	11400	100	10000	22600	112	80 - 120	23000	116	2	30
7782-49-2	Selenium	26.3	4.34	500	542	103	80 - 120	528	100	3	30
7440-22-4	Silver	0.0	0.60	500	502	100	80 - 120	498	100	0.7	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	472	94	1	30
7440-32-6	Titanium	0.0	1.20	500	495	99	80 - 120	493	99	0.5	30
7440-62-2	Vanadium	59.0	3.75	500	565	101	80 - 120	565	101	0.009	30
7440-66-6	Zinc	0.0	2.72	500	518	104	80 - 120	516	103	0.4	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	276	60.0	5000	5230	99	80 - 120	5210	99	0.5	30
7440-36-0	Antimony	0.0	4.03	500	515	103	80 - 120	508	102	1	30
7440-38-2	Arsenic	0.0	2.53	500	517	103	80 - 120	508	102	2	30
7440-41-7	Beryllium	0.0	0.11	500	496	99	80 - 120	498	100	0.3	30
7440-43-9	Cadmium	0.0	0.20	500	483	97	80 - 120	484	97	0.03	30
7440-70-2	Calcium	49700	50.0	5000	54200	90	80 - 120	54700	100	0.9	30
7440-47-3	Chromium	8.54	1.00	500	483	95	80 - 120	485	95	0.5	30
7440-48-4	Cobalt	0.0	1.00	500	496	99	80 - 120	488	98	2	30
7440-50-8	Copper	14.3	1.37	500	517	101	80 - 120	519	101	0.3	30
7439-89-6	Iron	204	40.0	5000	5090	98	80 - 120	5010	96	2	30
7439-92-1	Lead	0.0	1.39	500	484	97	80 - 120	478	96	1	30
7439-95-4	Magnesium	48700	50.0	5000	53100	87	80 - 120	52100	**68***	2	30
7439-96-5	Manganese	12.6	2.00	500	503	98	80 - 120	504	98	0.2	30
7439-98-7	Molybdenum	4.94	3.75	500	513	102	80 - 120	509	101	0.7	30
7440-02-0	Nickel	2.96	0.96	500	494	98	80 - 120	487	97	1	30
7440-09-7	Potassium	7780	100	10000	18000	102	80 - 120	17800	100	1	30
7782-49-2	Selenium	0.0	4.34	500	511	102	80 - 120	499	100	2	30
7440-22-4	Silver	0.0	0.60	500	492	98	80 - 120	494	99	0.4	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	470	94	2	30
7440-62-2	Vanadium	61.1	3.75	500	562	100	80 - 120	563	100	0.3	30
7440-66-6	Zinc	2.74	2.72	500	507	101	80 - 120	509	101	0.5	30
7440-32-6	Titanium	3.16	1.20	500	491	97	80 - 120	495	98	0.9	30

Inorganics Quality Control Summary

Analytical Batch	457118	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456691	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/25/2011 23:38			05/25/2011 23:45			05/25/2011 23:52		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		628000	1000	20000	676000	**244***	80 - 120	695000	**334***	3	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 19:35			05/25/2011 19:42			05/25/2011 19:49		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		567000	1000	20000	594000	**132***	80 - 120	594000	**131***	0.05	30

Analytical Batch	457201	**Client ID**	MB456848			LCS456848		
Prep Batch	456848	**GCAL ID**	949576			949577		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 17:58			05/26/2011 18:05		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4790	96	80 - 120
7440-36-0	Antimony		11.0J	4.03	500	457	91	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	478	96	80 - 120
7440-39-3	Barium		4.60J	0.11	500	469	94	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	497	99	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	462	92	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4680	94	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	464	93	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	470	94	80 - 120
7440-50-8	Copper		1.37U	1.37	500	464	93	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MB456848	LCS456848
Prep Batch	456848	**GCAL ID**	949576	949577
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 17:58	05/26/2011 18:05
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-89-6	Iron	40.0U	40.0	5000	4740	95	80 - 120
7439-92-1	Lead	1.39U	1.39	500	471	94	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4760	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	460	92	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	467	93	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	464	93	80 - 120
7440-09-7	Potassium	128J	100	10000	9520	95	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	473	95	80 - 120
7440-22-4	Silver	0.60U	0.60	500	474	95	80 - 120
7440-23-5	Sodium	200U	200	20000	19400	97	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	533	107	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	457	91	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	508	102	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	461	92	80 - 120

Analytical Batch	457201	**Client ID**	MWL6	948703MS	948703MSD
Prep Batch	456848	**GCAL ID**	21105190401	949578	949579
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 18:12	05/26/2011 18:18	05/26/2011 18:25
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	69.7	60.0	5000	4970	98	80 - 120	4900	97	1	30
7440-36-0	Antimony	0.0	4.03	500	509	102	80 - 120	511	102	0.3	30
7440-38-2	Arsenic	5.89	2.53	500	540	107	80 - 120	533	106	1	30
7440-39-3	Barium	24.1	0.11	500	509	97	80 - 120	499	95	2	30
7440-43-9	Cadmium	0.0	0.20	500	479	96	80 - 120	470	94	2	30
7440-70-2	Calcium	69200	50.0	5000	78800	**193***	80 - 120	76800	**152***	3	30
7440-47-3	Chromium	2.02	1.00	500	479	95	80 - 120	468	93	2	30
7440-48-4	Cobalt	1.74	1.00	500	472	94	80 - 120	466	93	1	30

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456848	**GCAL ID**	21105190401			949578			949579		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 18:12			05/26/2011 18:18			05/26/2011 18:25		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-50-8	Copper	13.3	1.37		500	485	94	80 - 120	475	92	2	30
7439-89-6	Iron	7450	40.0		5000	12900	110	80 - 120	12700	105	2	30
7439-92-1	Lead	2.50	1.39		500	485	96	80 - 120	483	96	0.5	30
7439-95-4	Magnesium	33800	50.0		5000	40600	**135***	80 - 120	40100	**126***	1	30
7439-96-5	Manganese	265	2.00		500	778	102	80 - 120	762	99	2	30
7439-98-7	Molybdenum	1.30	3.75		500	500	100	80 - 120	504	101	0.9	30
7440-02-0	Nickel	1.09	0.96		500	459	92	80 - 120	455	91	1	30
7440-09-7	Potassium	5470	100		10000	15500	100	80 - 120	15400	99	0.3	30
7782-49-2	Selenium	9.06	4.34		500	515	101	80 - 120	516	101	0.09	30
7440-22-4	Silver	0.0	0.60		500	494	99	80 - 120	484	97	2	30
7440-23-5	Sodium	69600	200		20000	91600	110	80 - 120	91300	108	0.3	30
7440-62-2	Vanadium	69.9	3.75		500	567	99	80 - 120	553	97	2	30
7440-32-6	Titanium	0.38	1.20		500	482	96	80 - 120	481	96	0.3	30

Analytical Batch	457290	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456691	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/27/2011 14:13			05/27/2011 14:21			05/27/2011 14:27		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium	15.3	0.11		500	500	97	80 - 120	500	97	0.1	30

Inorganics Quality Control Summary

Analytical Batch	457290	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/27/2011 14:54			05/27/2011 15:01			05/27/2011 15:08		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium		27.8	0.11	500	513	97	80 - 120	515	97	0.5	30

Analytical Batch	457428	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456848	**GCAL ID**	21105190401			949578			949579		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/31/2011 15:55			05/31/2011 16:02			05/31/2011 16:08		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-28-0	Thallium		0.0	1.75	500	559	112	80 - 120	537	107	4	30
7440-41-7	Beryllium		0.0	0.11	500	526	105	80 - 120	514	103	2	30
7440-66-6	Zinc		93.6	2.72	500	629	107	80 - 120	613	104	3	30

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MB455675	LCS455675
Prep Batch	455675	**GCAL ID**	944202	944203
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 11:42	05/10/2011 11:48
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5020	100	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	507	101	80 - 120
7440-38-2	Arsenic	3.02J	2.53	500	526	105	80 - 120
7440-39-3	Barium	1.68J	0.11	500	518	104	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	511	102	80 - 120
7440-43-9	Cadmium	0.67J	0.20	500	515	103	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	5070	101	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	504	101	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	521	104	80 - 120
7440-50-8	Copper	1.37U	1.37	500	504	101	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	5010	100	80 - 120
7439-92-1	Lead	1.39U	1.39	500	524	105	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	5060	101	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	514	103	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	511	102	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	508	102	80 - 120
7440-09-7	Potassium	100U	100	10000	10200	102	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	528	106	80 - 120
7440-22-4	Silver	0.60U	0.60	500	508	102	80 - 120
7440-23-5	Sodium	200U	200	20000	20400	102	80 - 120
7440-28-0	Thallium	3.18J	1.75	500	527	105	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	506	101	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	513	103	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	503	101	80 - 120

Inorganics Quality Control Summary

Analytical Batch	455988	**Client ID**	MWQ-10	MWQ-10-MS	MWQ-10-MSD
Prep Batch	455675	**GCAL ID**	21105042607	21105042608	21105042609
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/04/2011 16:30	05/04/2011 16:30	05/04/2011 16:30
		Analytical Date	05/10/2011 11:54	05/10/2011 12:01	05/10/2011 12:07
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4670	93	80 - 120	4830	97	3	30
7440-36-0	Antimony	0.0	4.03	500	501	100	80 - 120	510	102	2	30
7440-38-2	Arsenic	7.83	2.53	500	522	103	80 - 120	538	106	3	30
7440-39-3	Barium	123	0.11	500	596	95	80 - 120	620	99	4	30
7440-41-7	Beryllium	0.0	0.11	500	487	97	80 - 120	503	101	3	30
7440-43-9	Cadmium	0.86	0.20	500	480	96	80 - 120	494	99	3	30
7440-70-2	Calcium	54300	50.0	5000	57100	**56***	80 - 120	60600	**126***	6	30
7440-47-3	Chromium	1.07	1.00	500	474	95	80 - 120	486	97	3	30
7440-48-4	Cobalt	0.0	1.00	500	459	92	80 - 120	471	94	3	30
7440-50-8	Copper	12.2	1.37	500	468	91	80 - 120	484	94	3	30
7439-89-6	Iron	0.0	40.0	5000	4690	94	80 - 120	4890	98	4	30
7439-92-1	Lead	2.43	1.39	500	495	99	80 - 120	501	100	1	30
7439-95-4	Magnesium	40500	50.0	5000	43300	**55***	80 - 120	47000	**130***	8	30
7439-96-5	Manganese	0.0	2.00	500	480	96	80 - 120	495	99	3	30
7439-98-7	Molybdenum	4.87	3.75	500	497	98	80 - 120	506	100	2	30
7440-02-0	Nickel	0.0	0.96	500	444	89	80 - 120	456	91	3	30
7440-09-7	Potassium	6090	100	10000	15100	91	80 - 120	16300	102	7	30
7782-49-2	Selenium	0.0	4.34	500	505	101	80 - 120	519	104	3	30
7440-22-4	Silver	0.0	0.60	500	481	96	80 - 120	496	99	3	30
7440-23-5	Sodium	21500	200	20000	39100	88	80 - 120	41100	98	5	30
7440-28-0	Thallium	0.0	1.75	500	493	99	80 - 120	503	101	2	30
7440-32-6	Titanium	0.0	1.20	500	475	95	80 - 120	486	97	2	30
7440-62-2	Vanadium	69.8	3.75	500	545	95	80 - 120	565	99	4	30
7440-66-6	Zinc	4.86	2.72	500	480	95	80 - 120	495	98	3	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455823	LCS455823
Prep Batch	455823	**GCAL ID**	944905	944906
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:39	05/24/2011 17:46
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5030	101	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	493	99	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	496	99	80 - 120
7440-39-3	Barium	3.16J	0.11	500	499	100	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	498	100	80 - 120
7440-43-9	Cadmium	0.45J	0.20	500	500	100	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4990	100	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	495	99	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper	1.37U	1.37	500	494	99	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4970	99	80 - 120
7439-92-1	Lead	1.39U	1.39	500	497	99	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4970	99	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	498	100	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	491	98	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	497	99	80 - 120
7440-09-7	Potassium	100U	100	10000	10100	101	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	503	101	80 - 120
7440-22-4	Silver	0.60U	0.60	500	502	100	80 - 120
7440-23-5	Sodium	200U	200	20000	19000	95	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	493	99	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	491	98	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	507	101	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	496	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456692	LCS456692
Prep Batch	456692	**GCAL ID**	948869	948870
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 13:01	05/24/2011 13:08
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4840	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	469	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	477	95	80 - 120
7440-39-3	Barium	1.90J	0.11	500	483	97	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	484	97	80 - 120
7440-43-9	Cadmium	0.46J	0.20	500	488	98	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4790	96	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	480	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	479	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	477	95	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4810	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	478	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4830	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	483	97	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	472	94	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	491	98	80 - 120
7440-09-7	Potassium	100U	100	10000	9690	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	490	98	80 - 120
7440-22-4	Silver	0.60U	0.60	500	486	97	80 - 120
7440-23-5	Sodium	200U	200	20000	19400	97	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	477	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	475	95	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	485	97	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MWQ-14	MWQ14-MS	MWQ14-MSD
Prep Batch	456692	**GCAL ID**	21105042616	21105042617	21105042618
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/19/2011 15:00	05/19/2011 15:00	05/19/2011 15:00
		Analytical Date	05/24/2011 13:15	05/24/2011 13:22	05/24/2011 13:29
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4710	94	80 - 120	4700	94	0.08	30
7440-36-0	Antimony	0.0	4.03	500	514	103	80 - 120	514	103	0.2	30
7440-38-2	Arsenic	3.99	2.53	500	519	103	80 - 120	526	104	1	30
7440-39-3	Barium	11.9	0.11	500	493	96	80 - 120	495	97	0.5	30
7440-41-7	Beryllium	0.0	0.11	500	494	99	80 - 120	495	99	0.2	30
7440-43-9	Cadmium	0.13	0.20	500	488	98	80 - 120	494	99	1	30
7440-70-2	Calcium	66700	50.0	5000	75600	**178***	80 - 120	74900	**164***	0.9	30
7440-47-3	Chromium	1.98	1.00	500	472	94	80 - 120	474	94	0.4	30
7440-48-4	Cobalt	0.0	1.00	500	484	97	80 - 120	491	98	1	30
7440-50-8	Copper	14.5	1.37	500	512	100	80 - 120	508	99	0.9	30
7439-89-6	Iron	0.0	40.0	5000	4790	96	80 - 120	4850	97	1	30
7439-92-1	Lead	0.0	1.39	500	475	95	80 - 120	483	97	2	30
7439-95-4	Magnesium	62400	50.0	5000	69900	**150***	80 - 120	70700	**167***	1	30
7439-96-5	Manganese	0.0	2.00	500	486	97	80 - 120	488	98	0.4	30
7439-98-7	Molybdenum	26.0	3.75	500	520	99	80 - 120	528	100	1	30
7440-02-0	Nickel	0.0	0.96	500	481	96	80 - 120	488	98	1	30
7440-09-7	Potassium	11400	100	10000	21900	105	80 - 120	21800	104	0.5	30
7782-49-2	Selenium	23.3	4.34	500	531	101	80 - 120	548	105	3	30
7440-22-4	Silver	0.0	0.60	500	495	99	80 - 120	489	98	1	30
7440-28-0	Thallium	0.0	1.75	500	465	93	80 - 120	472	94	1	30
7440-32-6	Titanium	0.0	1.20	500	480	96	80 - 120	481	96	0.06	30
7440-62-2	Vanadium	58.1	3.75	500	554	99	80 - 120	558	100	0.8	30
7440-66-6	Zinc	0.0	2.72	500	511	102	80 - 120	510	102	0.09	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	105	60.0	5000	5040	99	80 - 120	4850	95	4	20
7440-36-0	Antimony	0.0	4.03	500	535	107	80 - 120	518	104	3	20
7440-38-2	Arsenic	0.0	2.53	500	552	110	80 - 120	518	104	6	20
7440-39-3	Barium	18.0	0.11	500	524	101	80 - 120	496	96	5	20
7440-41-7	Beryllium	0.0	0.11	500	522	104	80 - 120	495	99	5	20
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	483	97	6	20
7440-70-2	Calcium	50800	50.0	5000	56100	105	80 - 120	54000	**64***	4	20
7440-47-3	Chromium	2.24	1.00	500	498	99	80 - 120	474	94	5	20
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	490	98	4	20
7440-50-8	Copper	13.4	1.37	500	535	104	80 - 120	509	99	5	20
7439-89-6	Iron	46.6	40.0	5000	5030	100	80 - 120	4870	96	3	20
7439-92-1	Lead	0.0	1.39	500	501	100	80 - 120	478	96	5	20
7439-95-4	Magnesium	50100	50.0	5000	54200	82	80 - 120	53200	**63***	2	20
7439-96-5	Manganese	2.16	2.00	500	515	103	80 - 120	488	97	5	20
7439-98-7	Molybdenum	5.66	3.75	500	526	104	80 - 120	510	101	3	20
7440-02-0	Nickel	0.0	0.96	500	507	101	80 - 120	486	97	4	20
7440-09-7	Potassium	7880	100	10000	18200	104	80 - 120	17800	99	2	20
7782-49-2	Selenium	0.0	4.34	500	540	108	80 - 120	514	103	5	20
7440-22-4	Silver	0.0	0.60	500	518	104	80 - 120	491	98	5	20
7440-28-0	Thallium	0.0	1.75	500	498	100	80 - 120	477	95	4	20
7440-62-2	Vanadium	58.3	3.75	500	581	105	80 - 120	553	99	5	20
7440-66-6	Zinc	0.0	2.72	500	532	106	80 - 120	506	101	5	20
7440-32-6	Titanium	1.53	1.20	500	507	101	80 - 120	486	97	4	20

Inorganics Quality Control Summary

Analytical Batch	457118	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD		
Prep Batch	456692	**GCAL ID**	21105042616			21105042617			21105042618		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/19/2011 15:00			05/19/2011 15:00			05/19/2011 15:00		
		Analytical Date	05/25/2011 22:13			05/25/2011 22:20			05/25/2011 22:27		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		633000	1000	20000	682000	**248***	80 - 120	677000	**221***	0.8	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455823	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 16:46			05/25/2011 16:54			05/25/2011 17:01		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		588000	1000	20000	620000	**158***	80 - 120	585000	**-20***	6	20

Analytical Batch	457201	**Client ID**	MB456846			LCS456846		
Prep Batch	456846	**GCAL ID**	949568			949569		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 16:37			05/26/2011 16:43		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4800	96	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	471	94	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	493	99	80 - 120
7440-39-3	Barium		1.89J	0.11	500	478	96	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	479	96	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	479	96	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4760	95	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	472	94	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	480	96	80 - 120
7440-50-8	Copper		1.37U	1.37	500	472	94	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MB456846	LCS456846
Prep Batch	456846	**GCAL ID**	949568	949569
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 16:37	05/26/2011 16:43
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-89-6	Iron	40.0U	40.0	5000	4790	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	481	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4840	97	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	470	94	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	468	94	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	475	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9700	97	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	495	99	80 - 120
7440-22-4	Silver	0.60U	0.60	500	488	98	80 - 120
7440-23-5	Sodium	200U	200	20000	19700	99	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	537	107	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	478	96	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	466	93	80 - 120

Analytical Batch	457201	**Client ID**	MWL6	948703MS	948703MSD
Prep Batch	456846	**GCAL ID**	21105190401	949570	949571
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/23/2011 10:35	05/23/2011 10:35	05/23/2011 10:35
		Analytical Date	05/26/2011 16:50	05/26/2011 16:57	05/26/2011 17:03
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4990	100	80 - 120	4720	94	6	20
7440-36-0	Antimony	0.0	4.03	500	519	104	80 - 120	494	99	5	20
7440-38-2	Arsenic	3.95	2.53	500	563	112	80 - 120	526	104	7	20
7440-39-3	Barium	20.8	0.11	500	514	99	80 - 120	487	93	5	20
7440-41-7	Beryllium	0.0	0.11	500	508	102	80 - 120	483	97	5	20
7440-43-9	Cadmium	0.0	0.20	500	492	98	80 - 120	466	93	5	20
7440-70-2	Calcium	69200	50.0	5000	80100	**219***	80 - 120	72600	**69***	10	20
7440-47-3	Chromium	0.62	1.00	500	481	96	80 - 120	457	91	5	20

Inorganics Quality Control Summary

Analytical Batch	457201	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456846	**GCAL ID**	21105190401			949570			949571		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/26/2011 16:50			05/26/2011 16:57			05/26/2011 17:03		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-48-4	Cobalt	0.56	1.00		500	481	96	80 - 120	454	91	6	20
7440-50-8	Copper	9.01	1.37		500	481	94	80 - 120	459	90	5	20
7439-89-6	Iron	566	40.0		5000	5670	102	80 - 120	5340	96	6	20
7439-92-1	Lead	1.90	1.39		500	500	100	80 - 120	472	94	6	20
7439-95-4	Magnesium	33700	50.0		5000	42500	**176***	80 - 120	38400	93	10	20
7439-96-5	Manganese	158	2.00		500	675	104	80 - 120	631	95	7	20
7439-98-7	Molybdenum	1.58	3.75		500	510	102	80 - 120	487	97	5	20
7440-02-0	Nickel	0.0	0.96		500	466	93	80 - 120	441	88	5	20
7440-09-7	Potassium	5560	100		10000	16000	105	80 - 120	15000	94	7	20
7782-49-2	Selenium	8.02	4.34		500	543	107	80 - 120	512	101	6	20
7440-22-4	Silver	0.0	0.60		500	504	101	80 - 120	481	96	5	20
7440-23-5	Sodium	67800	200		20000	97300	**147***	80 - 120	87000	96	11	20
7440-62-2	Vanadium	59.3	3.75		500	560	100	80 - 120	530	94	5	20
7440-66-6	Zinc	4.65	2.72		500	497	98	80 - 120	473	94	5	20
7440-32-6	Titanium	0.0	1.20		500	487	97	80 - 120	468	94	4	20

Analytical Batch	457428	**Client ID**	MWL6			948703MS			948703MSD		
Prep Batch	456846	**GCAL ID**	21105190401			949570			949571		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/23/2011 10:35			05/23/2011 10:35			05/23/2011 10:35		
		Analytical Date	05/31/2011 14:48			05/31/2011 14:54			05/31/2011 15:01		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-28-0	Thallium	0.0	1.75		500	566	113	80 - 120	532	106	6	20

General Chemistry Quality Control Summary

Analytical Batch 455672	**Client ID**	MB455672			LCS455672		
Prep Batch N/A	**GCAL ID**	944157			944158		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:40			05/04/2011 14:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	982	98.2	80 - 120

Analytical Batch 455672	**Client ID**	MWQ-10		MWQ-10-DUP		
Prep Batch N/A	**GCAL ID**	21105042607		21105042610		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 14:40		05/04/2011 14:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	390	10.0	388	0.51	5

Analytical Batch 455813	**Client ID**	MB455813			LCS455813		
Prep Batch N/A	**GCAL ID**	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	**Client ID**	MW-10		944726DUP		
Prep Batch N/A	**GCAL ID**	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1480	10.0	1480	0.41	5

General Chemistry Quality Control Summary

Analytical Batch 456221	**Client ID**	MB456221			LCS456221		
Prep Batch N/A	**GCAL ID**	946613			946614		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:30			05/12/2011 15:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 456221	**Client ID**	U43010B		946472DUP		
Prep Batch N/A	**GCAL ID**	21105121901		946615		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 15:30		05/12/2011 15:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3120	10.0	3120	0.13	5

Analytical Batch 456375	**Client ID**	MB456375			LCS456375		
Prep Batch N/A	**GCAL ID**	947391			947392		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/16/2011 12:50			05/16/2011 12:50		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1060	106	80 - 120

Analytical Batch 456375	**Client ID**	MWQ-14		MWQ14-DUP		
Prep Batch N/A	**GCAL ID**	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 12:50		05/16/2011 12:50		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2670	10.0	2590	3	5

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Analytical Batch 456696	**Client ID**	MB456696			LCS456696		
Prep Batch N/A	**GCAL ID**	948885			948886		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 14:10			05/19/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	972	97.2	80 - 120

Analytical Batch 456696	**Client ID**	U4310B		948768DUP		
Prep Batch N/A	**GCAL ID**	21105191901		948887		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 14:10		05/19/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3730	10.0	3750	0.64	5

Analytical Batch 456780	**Client ID**	MB456780			LCS456780		
Prep Batch N/A	**GCAL ID**	949280			949281		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/20/2011 14:10			05/20/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 456780	**Client ID**	WS1		949232DUP		
Prep Batch N/A	**GCAL ID**	21105201404		949282		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/20/2011 14:10		05/20/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2620	10.0	2670	1.7	5

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Analytical Batch 455671	**Client ID**	MB455671			LCS455671		
Prep Batch N/A	**GCAL ID**	944153			944154		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:48			05/04/2011 14:49		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.492	98	89.5 -110.5

Analytical Batch 455671	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:23			05/04/2011 15:24			05/04/2011 15:25			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	7.07	0.052	10.0	16.6	96	89.5 -110.5	16.7	96	0.4	25

Analytical Batch 455671	**Client ID**	SP11A417		943975DUP		
Prep Batch N/A	**GCAL ID**	21104300413		944155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 15:09		05/04/2011 15:10		
	Matrix	Water		Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.000	0	25

Analytical Batch 455673	**Client ID**	MB455673			LCS455673		
Prep Batch N/A	**GCAL ID**	944164			944165		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 15:41			05/04/2011 15:43		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.465	93	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 455673	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:51			05/04/2011 15:55			05/04/2011 15:56			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.468	94	89.5 -110.5	0.470	94	0.4	25

Analytical Batch 455673	**Client ID**	SP11A417		943975DUP		
Prep Batch N/A	**GCAL ID**	21104300413		944166		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 16:01		05/04/2011 16:03		
	Matrix	Water		Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.000	0	25

Analytical Batch 455837	**Client ID**	MB455837			LCS455837		
Prep Batch N/A	**GCAL ID**	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.498	100	89.5 -110.5

Analytical Batch 455837	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

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Analytical Batch 455838	**Client ID**	MB455838			LCS455838		
Prep Batch N/A	**GCAL ID**	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	ND	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 455838	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

Analytical Batch 456222	**Client ID**	MB456222			LCS456222		
Prep Batch N/A	**GCAL ID**	946662			946663		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:58			05/12/2011 15:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.469	94	89.5 -110.5

Analytical Batch 456222	**Client ID**	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	**GCAL ID**	21105042612			946664			946665			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:01			05/12/2011 16:03			05/12/2011 16:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.309	0.003	0.500	0.797	97	89.5 -110.5	0.797	97	0	25

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Analytical Batch 456223	**Client ID**	MB456223			LCS456223		
Prep Batch N/A	**GCAL ID**	946676			946677		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 16:16			05/12/2011 16:17		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.487	97	89.5 -110.5

Analytical Batch 456223	**Client ID**	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	**GCAL ID**	21105042612			946678			946679			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:18			05/12/2011 16:19			05/12/2011 16:21			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.011	0.003	0.500	0.502	98	89.5 -110.5	0.501	98	0.2	25

Analytical Batch 456275	**Client ID**	MB456275			LCS456275		
Prep Batch N/A	**GCAL ID**	946911			946912		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:58			05/13/2011 11:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.504	101	89.5 -110.5

Analytical Batch 456275	**Client ID**	MWQ-19			946851MS			946851MSD			
Prep Batch N/A	**GCAL ID**	21105042614			946913			946914			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/13/2011 12:02			05/13/2011 12:03			05/13/2011 12:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.472	94	89.5 -110.5	0.473	95	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456278	**Client ID**	MB456278			LCS456278		
Prep Batch N/A	**GCAL ID**	946917			946918		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 12:17			05/13/2011 12:19		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 456278	**Client ID**	MWQ-19			946851MS			946851MSD			
Prep Batch N/A	**GCAL ID**	21105042614			946919			946920			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/13/2011 12:20			05/13/2011 12:21			05/13/2011 12:22			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.007	0.003	0.500	0.547	108	89.5 -110.5	0.549	108	0.4	25

Analytical Batch 456325	**Client ID**	MB456325			LCS456325		
Prep Batch N/A	**GCAL ID**	947217			947218		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:22			05/14/2011 10:24		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.514	103	89.5 -110.5

Analytical Batch 456325	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:31			05/14/2011 10:32			05/14/2011 10:34			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	1.59	0.013	2.50	4.10	100	89.5 -110.5	4.08	100	0.3	25

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Analytical Batch 456326	**Client ID**	MB456326			LCS456326		
Prep Batch N/A	**GCAL ID**	947219			947220		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:44			05/14/2011 10:45		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.484	97	89.5 -110.5

Analytical Batch 456326	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:46			05/14/2011 10:48			05/14/2011 10:49			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.002	0.003	0.500	0.484	96	89.5 -110.5	0.479	95	1	25

Analytical Batch 456596	**Client ID**	MB456596			LCS456596		
Prep Batch N/A	**GCAL ID**	948435			948436		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/18/2011 16:16			05/18/2011 16:17		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.496	99	89.5 -110.5

Analytical Batch 456596	**Client ID**	MWQ-20			948204MS			948204MSD			
Prep Batch N/A	**GCAL ID**	21105042620			948437			948438			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 16:19			05/18/2011 16:41			05/18/2011 16:42			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.503	101	89.5 -110.5	0.503	101	0	25

General Chemistry Quality Control Summary

Analytical Batch 456596	**Client ID**	LCMW9W01P			948417MS			948417MSD			
Prep Batch N/A	**GCAL ID**	21105173415			948439			948440			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 16:36			05/18/2011 16:37			05/18/2011 16:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.000	0.003	0.500	0.462	92	89.5 -110.5	0.462	92	0.1	25

Analytical Batch 456597	**Client ID**	MB456597			LCS456597		
Prep Batch N/A	**GCAL ID**	948441			948442		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/18/2011 15:31			05/18/2011 15:32		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.475	95	89.5 -110.5

Analytical Batch 456597	**Client ID**	MWQ-20			948204MS			948204MSD			
Prep Batch N/A	**GCAL ID**	21105042620			948443			948444			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 15:34			05/18/2011 15:35			05/18/2011 15:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.006	0.003	0.500	0.485	96	89.5 -110.5	0.484	95	0.2	25

Analytical Batch 456715	**Client ID**	MB456715			LCS456715		
Prep Batch N/A	**GCAL ID**	948964			948965		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 15:23			05/19/2011 15:24		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.470	94	89.5 -110.5

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Analytical Batch 456715	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948966			948967			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 15:25			05/19/2011 15:26			05/19/2011 15:28			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.013	0.003	0.500	0.481	94	89.5 -110.5	0.476	93	1	25

Analytical Batch 456717	**Client ID**	MB456717			LCS456717		
Prep Batch N/A	**GCAL ID**	948972			948973		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 16:16			05/19/2011 16:18		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.495	99	89.5 -110.5

Analytical Batch 456717	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948974			948975			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 16:20			05/19/2011 16:21			05/19/2011 16:23			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.408	0.003	0.500	0.930	104	89.5 -110.5	0.918	102	1	25

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Analytical Batch 455977	**Client ID**	MB455977			LCS455977		
Prep Batch N/A	**GCAL ID**	945498			945499		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 09:13			05/10/2011 09:31		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.40	95.9	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.68	93.6	82 - 110

Analytical Batch 455977	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 19:35			05/10/2011 19:52			05/10/2011 20:10			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	29.3	0.420	50.0	78.1	97.6	79 - 109	80.9	103	3.5	15
14808-79-8	Sulfate	60.6	1.58	100	161	100	82 - 110	160	99.7	0.14	15

Analytical Batch 456165	**Client ID**	MB456165			LCS456165		
Prep Batch N/A	**GCAL ID**	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.05	101	82 - 110

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Analytical Batch 456165		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16		
		Matrix	Water			Water			Water		
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate		704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch 456395		**Client ID**	MB456395			LCS456395		
Prep Batch N/A		**GCAL ID**	947473			947474		
		Sample Type	Method Blank			LCS		
		Analytical Date	05/16/2011 18:06			05/16/2011 18:24		
		Matrix	Water			Water		
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
16887-00-6	Chloride		0.021U	0.021	2.50	2.41	96.5	79 - 109
14808-79-8	Sulfate		0.079U	0.079	5.00	5.12	102	82 - 110

Analytical Batch 456395		**Client ID**	MWQ-18			946852MS			946852MSD			
Prep Batch N/A		**GCAL ID**	21105042615			957351			957352			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	05/16/2011 21:55			05/16/2011 22:13			05/16/2011 22:30			
		Matrix	Water			Water			Water			
EPA 300.0		**Units**	**Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
16887-00-6	Chloride		40.3	1.05	125	161	96.9	79 - 109	161	96.8	0.14	15
14808-79-8	Sulfate		110	3.95	250	365	102	82 - 110	366	102	0.025	15

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Analytical Batch 456669	**Client ID**	MB456669			LCS456669		
Prep Batch N/A	**GCAL ID**	948789			948790		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 17:40			05/19/2011 17:58		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.4	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.91	98.3	82 - 110

Analytical Batch 456669	**Client ID**	E16A			946542MS			946542MSD			
Prep Batch N/A	**GCAL ID**	21105122833			948791			948792			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 18:15			05/19/2011 18:33			05/19/2011 18:51			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate	76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948793			948794			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/20/2011 01:01			05/20/2011 01:18			05/20/2011 01:36			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate	216	3.95	250	470	102	82 - 110	468	101	0.49	15

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Analytical Batch 455687	**Client ID**	LCS455687			
Prep Batch N/A	**GCAL ID**	944291			
	Sample Type	LCS			
	Analytical Date	05/04/2011 15:38			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	203	101	80 - 120

Analytical Batch 455687	**Client ID**	MWQ-10		MWQ-10-DUP		
Prep Batch N/A	**GCAL ID**	21105042607		21105042610		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 15:38		05/04/2011 15:38		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		216	0.21	220	2	11

Analytical Batch 455965	**Client ID**	LCS455965			
Prep Batch N/A	**GCAL ID**	945466			
	Sample Type	LCS			
	Analytical Date	05/09/2011 11:15			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	206	103	80 - 120

Analytical Batch 455965	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945467		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 11:15		05/09/2011 11:15		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		69.2	0.21	70.4	2	11

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Analytical Batch 456175	**Client ID**	LCS456175			
Prep Batch N/A	**GCAL ID**	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456175	**Client ID**	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	**GCAL ID**	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 09:24		05/12/2011 09:24		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		169	0.21	171	0.8	11

Analytical Batch 456413	**Client ID**	LCS456413			
Prep Batch N/A	**GCAL ID**	947547			
	Sample Type	LCS			
	Analytical Date	05/16/2011 13:32			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456413	**Client ID**	MWQ-14		MWQ14-DUP		
Prep Batch N/A	**GCAL ID**	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 13:32		05/16/2011 13:32		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		133	0.21	137	3	11

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Analytical Batch 456595	**Client ID**	LCS456595			
Prep Batch N/A	**GCAL ID**	948433			
	Sample Type	LCS			
	Analytical Date	05/18/2011 14:07			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456595	**Client ID**	TK-471		948229DUP		
Prep Batch N/A	**GCAL ID**	21105181102		948434		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/18/2011 14:07		05/18/2011 14:07		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		308	0.21	309	0.3	11

Analytical Batch 456752	**Client ID**	LCS456752			
Prep Batch N/A	**GCAL ID**	949143			
	Sample Type	LCS			
	Analytical Date	05/20/2011 07:23			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	201	100	80 - 120

Analytical Batch 456752	**Client ID**	MWL6		948703DUP		
Prep Batch N/A	**GCAL ID**	21105190401		949144		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/20/2011 07:23		05/20/2011 07:23		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		129	0.21	133	3	11

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Analytical Batch 456757	**Client ID**	LCS456757	LCSD456757
Prep Batch N/A	**GCAL ID**	949156	949157
	Sample Type	LCS	LCSD
	Analytical Date	05/20/2011 07:47	05/20/2011 07:47
	Matrix	Water	Water

SM 2320B Alkalinity	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity	10.0	9.8	98	80 - 120	10.3	103	5	11

General Chemistry Quality Control Summary

Analytical Batch 455665	**Client ID**	MB455665			LCS455665		
Prep Batch N/A	**GCAL ID**	944121			944122		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:12			05/04/2011 14:13		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	493	99	80 - 120

Analytical Batch 455665	**Client ID**	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	**GCAL ID**	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 14:13			05/04/2011 14:14			05/04/2011 14:15			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	5.00	2.80	500	535	106	80 - 120	531	105	0.8	20

Analytical Batch 455820	**Client ID**	MB455820			LCS455820		
Prep Batch N/A	**GCAL ID**	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	**Client ID**	M114MW004			944807MS			944807MSD			
Prep Batch N/A	**GCAL ID**	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	453	91	80 - 120	457	91	0.9	20

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Analytical Batch 456171	**Client ID**	MB456171			LCS456171		
Prep Batch N/A	**GCAL ID**	946326			946327		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 10:37			05/12/2011 10:38		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	455	91	80 - 120

Analytical Batch 456171	**Client ID**	MWQ-22			946321MS		
Prep Batch N/A	**GCAL ID**	21105042612			946328		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/12/2011 10:39			05/12/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	502	100	80 - 120

Analytical Batch 456171	**Client ID**	MWQ-22		946321DUP		
Prep Batch N/A	**GCAL ID**	21105042612		946329		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 10:39		05/12/2011 10:40		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456272	**Client ID**	MB456272			LCS456272		
Prep Batch N/A	**GCAL ID**	946901			946902		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:02			05/13/2011 11:02		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	506	101	80 - 120

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Analytical Batch 456272	**Client ID**	MWQ-18			946852MS		
Prep Batch N/A	**GCAL ID**	21105042615			946904		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/13/2011 11:05			05/13/2011 11:06		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	475	95	80 - 120

Analytical Batch 456272	**Client ID**	MWQ-18		946852DUP		
Prep Batch N/A	**GCAL ID**	21105042615		946903		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/13/2011 11:05		05/13/2011 11:05		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456327	**Client ID**	MB456327			LCS456327		
Prep Batch N/A	**GCAL ID**	947221			947222		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:39			05/14/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456327	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	**GCAL ID**	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:40			05/14/2011 10:40			05/14/2011 10:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	418	84	80 - 120	426	85	2	20

General Chemistry Quality Control Summary

Analytical Batch 456557	**Client ID**	MB456557	LCS456557
Prep Batch N/A	**GCAL ID**	948220	948221
	Sample Type	Method Blank	LCS
	Analytical Date	05/18/2011 10:14	05/18/2011 10:15
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	545	109	80 - 120

Analytical Batch 456557	**Client ID**	MWQ-20	948204MS
Prep Batch N/A	**GCAL ID**	21105042620	948223
	Sample Type	SAMPLE	MS
	Analytical Date	05/18/2011 10:16	05/18/2011 10:16
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	555	111	80 - 120

Analytical Batch 456557	**Client ID**	MWQ-20	948204DUP
Prep Batch N/A	**GCAL ID**	21105042620	948222
	Sample Type	SAMPLE	DUP
	Analytical Date	05/18/2011 10:16	05/18/2011 10:16
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456663	**Client ID**	MB456663	LCS456663
Prep Batch N/A	**GCAL ID**	948723	948724
	Sample Type	Method Blank	LCS
	Analytical Date	05/19/2011 10:07	05/19/2011 10:08
	Matrix	Water	Water

SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	499	100	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456663	**Client ID**	MWL6			948703MS		
Prep Batch N/A	**GCAL ID**	21105190401			948726		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/19/2011 10:09			05/19/2011 10:10		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	496	99	80 - 120

Analytical Batch 456663	**Client ID**	MWL6		948703DUP		
Prep Batch N/A	**GCAL ID**	21105190401		948725		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 10:09		05/19/2011 10:09		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch	455832	**Client ID**	MB455725		LCS455725		
Prep Batch	455725	**GCAL ID**	944419		944420		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCS		
		Prep Date	05/06/2011 09:00		05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03		05/06/2011 14:04		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.020	0.017	82.5	80 - 120

Analytical Batch	455832	**Client ID**	MB455725		LCSHI455725		
Prep Batch	455725	**GCAL ID**	944419		944421		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCSHI		
		Prep Date	05/06/2011 09:00		05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03		05/06/2011 14:05		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.10	0.083	83.3	80 - 120

Analytical Batch	455832	**Client ID**	MWQ-10		MWQ-10-MS			MWQ-10-MSD				
Prep Batch	455725	**GCAL ID**	21105042607		21105042608			21105042609				
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS			MSD				
		Prep Date	05/06/2011 09:00		05/06/2011 09:00			05/06/2011 09:00				
		Analytical Date	05/06/2011 14:14		05/06/2011 14:15			05/06/2011 14:16				
		Matrix	Water		Water			Water				
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0375	**75.0***	80 - 120	0.0376	**75.0***	0.30	20	

General Chemistry Quality Control Summary

Analytical Batch	456300	**Client ID**	MB455936			LCS455936		
Prep Batch	455936	**GCAL ID**	945393			945394		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 16:08		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.021	107	80 - 120

Analytical Batch	456300	**Client ID**	MB455936			LCSHI455936		
Prep Batch	455936	**GCAL ID**	945393			945395		
Prep Method	SW-846	**Sample Type**	Method Blank			LCSHI		
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 17:15		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.12	117	80 - 120

Analytical Batch	456300	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455936	**GCAL ID**	21105060810			21105060811			21105060812			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	9012A	**Prep Date**	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/13/2011 16:22			05/13/2011 16:23			05/13/2011 16:24			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0	0.00055	0.050	0.047	94.6	80 - 120	0.048	96.2	1.7	20

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MB456439			LCS456439		
Prep Batch	456439	**GCAL ID**	947658			947659		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:51		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.018	88.0	80 - 120

Analytical Batch	456904	**Client ID**	MB456439			LCSHI456439		
Prep Batch	456439	**GCAL ID**	947658			947660		
Prep Method	SW-846	**Sample Type**	Method Blank			LCSHI		
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:52		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.087	87.2	80 - 120

Analytical Batch	456904	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	**GCAL ID**	21105042616			21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	9012A	**Prep Date**	05/19/2011 16:30			05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59			05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0	0.0006	0.050	0.0396	**79.0***	80 - 120	0.0398	80.0	0.50	20

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MWQ-14	947214DUP
Prep Batch	456439	**GCAL ID**	21105042616	947661
Prep Method	SW-846	**Sample Type**	SAMPLE	DUP
	9012A	**Prep Date**	05/19/2011 16:30	05/19/2011 16:30
		Analytical Date	05/23/2011 10:59	05/23/2011 11:00
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
57-12-5	Total Cyanide	0.0	0.0006	0.0	0.0	25

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	2105042E	5/11

Report to:
Client: Trinity
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Alkalinity/TDS	Remote rate	Cyanide (Total/Amb)	Hexavalent Chromium	CL/SO4/NO3/NO2	Total Metals (Total HNO3)	Dissolved Metals (Total HNO3)				Remarks:	Lab ID
GW	5/3/11	0915		X	MWQ-3		7	X	X	X	X	X	X	X					1
GW	5/3/11	1018		X	MWQ-4		7	X	X	X	X	X	X	X					2
GW	5/3/11	1157		X	MWQ-5		7	X	X	X	X	X	X	X					3
GW	5/3/11	1157		X	MWQ-5-Dup		7	X	X	X	X	X	X	X					4
GW	5/3/11	1312		X	MWQ-6		7	X	X	X	X	X	X	X					5
GW	5/3/11	1353		X	MWQ-7		7	X	X	X	X	X	X	X					6
GW	5/3/11	1523		X	MWQ-10		7	X	X	X	X	X	X	X					7
GW	5/3/11	1523		X	MWQ-10-MS		7	X	X	X	X	X	X	X					8
GW	5/3/11	1523		X	MWQ-10-MSD		7	X	X	X	X	X	X	X					9 10

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Foley	Received by: (Signature)	Date: 5-4-11	Time: 9:45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SDG: Annual

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050426	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MW02		7	X		X	X	X	X	X		X			* 11	~~13~~ 1
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X				~~14~~ 2
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X				~~15~~ 3
	5/5/11	926			TB1		3													~~16~~ 4
	5/5/11	926			TB2		3													~~17~~ 5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Date: 5-6-11	Time: 900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample is in the outside on

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CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	11050426	5/11/11

Report to:
Client: Trinity ADL
Address: 90NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Wellrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT/TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X					12	
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X					13	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	5/12/11	1500
FedEx	[signature]	5/12/11	0155

Note:

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Matrix[1]: W = water, S = soil, SO = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Trinity (Client Name)	4747	2110504 26	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy IMA
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALKT/TS	Cl/SO4/NO3/NO2				Remarks:	Lab ID
GW	5/12/11	950		x	MWQ19		7	x	x	x	x	x	x	x				14	/
GW	5/12/11	1240		x	MWQ18		7		x	x	x	x	x	x				15	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/12/11	1500
Fedex	[signature]	05/13/11	0920

Note: Extra volume labled "Field Filtered". This was not filtered, lab needs to filter. MWQ18

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Boca Raton Pkwy Rd
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 352 243 6072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Metrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALKT/TS	Cl/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/13/11	1231		X	MWQ14		7	X	X	X	X	X	X	X					16	
GW	5/13/11	1231		X	MWQ14-MS		7	X	X	X	X	X	X	X					17	
GW	5/13/11	1231		X	MWQ14-MSD		7	X	X	X	X	X	X	X					18	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/13/11	1408
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	2110504726	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ad
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	Perchlorate	(+VI)	Cyanide ($NaOH$)	ALKTTS	CL/SO4/NO3/NO2					Remarks:	Lab ID
GW	5/17/11	1322		X	MWQ-20		7	X	X	X	X	X	X	X					19	
GW	5/17/11	1322		X	MWQ-20-Dup		7	X	X	X	X	X	X	X					20	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	5/17/11	1600
Fed Ex	[signature]	5/18/11	0845

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Trinity (Client Name)	4747	211058426	

Report to:
Client: Trinity AOC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL, 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

Analytical Requests & Method: Dissolved Metals (HNO3), Total Metals (HNO3), Cyanide (NaOH), Perchlorate, CrVI, ALK/T/TS, CL/SO4/NO3/NO2

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK/T/TS	CL/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/18/11	1450		V	MWL6		7									1
W	5/18/11	1030		x	EB2		7								21	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	1600
[signature]	[signature]	5/19/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050426

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Raborn, Michelle

Received Date/Time: 5/4/2011 9:45:00 AM

Samples Received via: WET

Number of Coolers Received: 7

Cooler tracking numbers(s): 8735 2663 9247 , 8735 2663 9203 , 8735 2663 9225 , 8735 2663 8939 , 8735 2663 9247 , 8735 2663 9155 , 8735 2663 9166

Cooler temperature(s): Various noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☑ Yes	☐ No	☐ N/A

Containers preserved at the laboratory: 21105042615-4(L-HNO3)

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times on COC

June 03, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1105192

TEL: (225) 769-4900
FAX: (225) 767-5717

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 17 sample(s) on 5/20/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
09	W	5/11/11	1101		X	21105042612			X	MWQ22	
10	W	5/11/11	1305		X	21105042613			X	MWQ21	
11	W	5/12/11	0905		X	21105042614			X	MWQ 19	
12	W	5/13/11	1240		X	21105042615			X	MWQ 18	
13	W	5/13/11	1231		X	21105042616			X	MWQ14	
13	W	5/13/11	1231		X	21105042617 MS OF 2616			X	MWQ14 MS	
13	W	5/13/11	1231		X	21105042618 MSD OF 2616			X	MWQ14 MSD	
14	W	5/17/11	1322		X	21105042620			X	MWQ-20	
15	W	5/17/11	1322		X	21105042621			X	MWQ-20 DUP	
16	W	5/18/11	1430		X	21105190401			X	MWL6	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7°
Please fax results to (225)769-4900 Item #57
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

Analysis Requested

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/3/11	0915		X	21105042601			X	MWQ-3	
02	W	5/3/11	1018		X	21105042602			X	MWQ-4	
03	W	5/3/11	1157		X	21105042603			X	MWQ-5	
04	W	5/3/11	1157		X	21105042604			X	MWQ-5-DUP	
05	W	5/3/11	1312		X	21105042605			X	MWQ-6	
06	W	5/3/11	1353		X	21105042606			X	MWQ-7	
07	W	5/3/11	1523		X	21105042607			X	MWQ-10	
07	W	5/3/11	1523		X	21105042608 MS OF 2607			X	MWQ-10-MS	
07	W	5/3/11	1523		X	21105042609 MSD OF 2607			X	MWQ-10-MSD	
08	W	5/5/11	0926		X	21105042611			X	MWQ2	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7 Therm #57

Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

Chain of Custody Record

1105192

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0456

Project Name/Number: 211050426

Sampled By: 4747

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
17	W	5/18/11	1030		X	21105042622			X	EB2	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/19/11	14:15
[signature]	[signature]	5/20/11	1020

Note: Receiving temp 2.7° 2 Perm HS7

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

From: (225) 769-4900
Michelle Rabom

7979 GSRI Ave

Baton Rouge, LA 70820

Origin ID: OPLA

FedEx Express

E

J1151102240225

Ship Date: 19MAY11
ActWgt: 40.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222
JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

BILL SENDER

Ref #
Invoice #
PO #
Dept #

FRI - 20 MAY A1
PRIORITY OVERNIGHT

TRK# 7947 7896 9810
0201

78664
TX-US
AUS

A8 BSMA

500GUSF/FFB

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 5/20/2011

Work Order Number 1105192

Received by JB

Checklist completed by: JBaker (Signature) 5/20/11 (Date)

Reviewed by SS (Initials) 5-20-11 (Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted GCAL Date contacted: 5/20/11 Person contacted Dana Merrill

Contacted by: JBaker Regarding: COC unsigned

Comments: COC was unsigned when samples arrived. Client emailed COC signed and dated.

Corrective Action Copy of COC included in work order.

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

06/03/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	O!	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	O!	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	O!	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	O!	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	O!	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	O!	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	O!	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	O!	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	O!	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	O!	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: ICMS-110526A

ICAL Folder: ICMS_ClO4-101118

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst 6/1/11 Date

2nd Level Review 6-1-2011 Date

Manual Integrations Tracking Form_ICMS_110526A

Initial Calibration Summary

Control Program:	ClO4PGM_101118
Quantif. Method:	ClO4_101118
Recording Time:	5/26/2011 13:16
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	766.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893

6/1/11
CH

Internal Standard Summary

Sequence Name:	**110526_CLO4**
Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.510~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

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1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11
SD

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/20/11. A total of 17 samples were received and all were analyzed. The Chain-of-Custody (COC) was not signed by the client when the samples arrived at DHL Analytical. The client emailed a signed copy of the COC. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Perchlorate analysis performed on 5/26/11 the matrix spike duplicate was above control limits. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the high conductivity of the samples. The samples are: 21105042611, 21105042614, 21105042615, and 21105190401. Samples 21105042620 and 21105042621 were further prepared with a smaller volume of 10 ml for final analysis.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 11 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/20/11. Sample summary sent via email from Log-in to client on 5/20/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105192-01	21105042601		05/03/11 09:15 AM	05/20/11
1105192-02	21105042602		05/03/11 10:18 AM	05/20/11
1105192-03	21105042603		05/03/11 11:57 AM	05/20/11
1105192-04	21105042604		05/03/11 11:57 AM	05/20/11
1105192-05	21105042605		05/03/11 01:12 PM	05/20/11
1105192-06	21105042606		05/03/11 01:53 PM	05/20/11
1105192-07	21105042607		05/03/11 03:23 PM	05/20/11
1105192-08	21105042611		05/05/11 09:26 AM	05/20/11
1105192-09	21105042612		05/11/11 11:01 AM	05/20/11
1105192-10	21105042613		05/11/11 01:05 PM	05/20/11
1105192-11	21105042614		05/12/11 09:05 AM	05/20/11
1105192-12	21105042615		05/13/11 12:40 PM	05/20/11
1105192-13	21105042616		05/13/11 12:31 PM	05/20/11
1105192-14	21105042620		05/17/11 01:22 PM	05/20/11
1105192-15	21105042621		05/17/11 01:22 PM	05/20/11
1105192-16	21105190401		05/18/11 02:30 PM	05/20/11
1105192-17	21105042622		05/18/11 10:30 AM	05/20/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105192-01A	21105042601	05/03/11 09:15 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-02A	21105042602	05/03/11 10:18 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-03A	21105042603	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-04A	21105042604	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-05A	21105042605	05/03/11 01:12 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-06A	21105042606	05/03/11 01:53 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-07A	21105042607	05/03/11 03:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-08A	21105042611	05/05/11 09:26 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-09A	21105042612	05/11/11 11:01 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-10A	21105042613	05/11/11 01:05 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-11A	21105042614	05/12/11 09:05 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-12A	21105042615	05/13/11 12:40 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-13A	21105042616	05/13/11 12:31 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-14A	21105042620	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-15A	21105042621	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-16A	21105190401	05/18/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-17A	21105042622	05/18/11 10:30 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105192-01A	21105042601	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:07 PM	ICMS_110526A
1105192-02A	21105042602	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:25 PM	ICMS_110526A
1105192-03A	21105042603	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:43 PM	ICMS_110526A
1105192-04A	21105042604	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:00 PM	ICMS_110526A
1105192-05A	21105042605	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:18 PM	ICMS_110526A
1105192-06A	21105042606	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:36 PM	ICMS_110526A
1105192-07A	21105042607	Aqueous	SW6860	Perchlorate - Water	46519	1	05/26/11 08:53 PM	ICMS_110526A
1105192-08A	21105042611	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:54 PM	ICMS_110526A
1105192-09A	21105042612	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:11 PM	ICMS_110526A
1105192-10A	21105042613	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:29 PM	ICMS_110526A
1105192-11A	21105042614	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:47 PM	ICMS_110526A
1105192-12A	21105042615	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:24 AM	ICMS_110526A
1105192-13A	21105042616	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:52 PM	ICMS_110526A
1105192-14A	21105042620	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:42 AM	ICMS_110526A
1105192-15A	21105042621	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:59 AM	ICMS_110526A
1105192-16A	21105190401	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:17 PM	ICMS_110526A
1105192-17A	21105042622	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:35 PM	ICMS_110526A

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042601
Project:	DoD Perchlorate	**Lab ID:**	1105192-01
Project No:	211050426	**Collection Date:**	05/03/11 09:15 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00731	0.000100	0.000300	N	mg/L	1	05/27/11 12:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042602
Project:	DoD Perchlorate	**Lab ID:**	1105192-02
Project No:	211050426	**Collection Date:**	05/03/11 10:18 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00308	0.000100	0.000300	N	mg/L	1	05/27/11 12:25 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042603
Project:	DoD Perchlorate	**Lab ID:**	1105192-03
Project No:	211050426	**Collection Date:**	05/03/11 11:57 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00300	0.000100	0.000300	N	mg/L	1	05/27/11 12:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042604
Project:	DoD Perchlorate	**Lab ID:**	1105192-04
Project No:	211050426	**Collection Date:**	05/03/11 11:57 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00306	0.000100	0.000300	N	mg/L	1	05/27/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042605
Project:	DoD Perchlorate	**Lab ID:**	1105192-05
Project No:	211050426	**Collection Date:**	05/03/11 01:12 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00398	0.000100	0.000300	N	mg/L	1	05/27/11 01:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042606
Project:	DoD Perchlorate	**Lab ID:**	1105192-06
Project No:	211050426	**Collection Date:**	05/03/11 01:53 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00584	0.000100	0.000300	N	mg/L	1	05/27/11 01:36 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042607
Project:	DoD Perchlorate	**Lab ID:**	1105192-07
Project No:	211050426	**Collection Date:**	05/03/11 03:23 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000530	0.000100	0.000300	N	mg/L	1	05/26/11 08:53 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042611
Project:	DoD Perchlorate	**Lab ID:**	1105192-08
Project No:	211050426	**Collection Date:**	05/05/11 09:26 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 01:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042612
Project:	DoD Perchlorate	**Lab ID:**	1105192-09
Project No:	211050426	**Collection Date:**	05/11/11 11:01 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00148	0.000100	0.000300	N	mg/L	1	05/27/11 02:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042613
Project:	DoD Perchlorate	**Lab ID:**	1105192-10
Project No:	211050426	**Collection Date:**	05/11/11 01:05 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00827	0.000100	0.000300	N	mg/L	1	05/27/11 02:29 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042614
Project:	DoD Perchlorate	**Lab ID:**	1105192-11
Project No:	211050426	**Collection Date:**	05/12/11 09:05 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 02:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042615
Project:	DoD Perchlorate	**Lab ID:**	1105192-12
Project No:	211050426	**Collection Date:**	05/13/11 12:40 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0108	0.000198	0.000594	N	mg/L	1	05/31/11 11:24 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042616
Project:	DoD Perchlorate	**Lab ID:**	1105192-13
Project No:	211050426	**Collection Date:**	05/13/11 12:31 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00452	0.000100	0.000300	N	mg/L	1	05/31/11 12:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042620
Project:	DoD Perchlorate	**Lab ID:**	1105192-14
Project No:	211050426	**Collection Date:**	05/17/11 01:22 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:42 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042621
Project:	DoD Perchlorate	**Lab ID:**	1105192-15
Project No:	211050426	**Collection Date:**	05/17/11 01:22 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:59 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105190401
Project:	DoD Perchlorate	**Lab ID:**	1105192-16
Project No:	211050426	**Collection Date:**	05/18/11 02:30 PM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00994	0.000198	0.000594	N	mg/L	1	05/31/11 12:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/03/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105042622
Project:	DoD Perchlorate	**Lab ID:**	1105192-17
Project No:	211050426	**Collection Date:**	05/18/11 10:30 AM
Lab Order:	1105192	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	05/31/11 12:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	1105192-07AMS	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 09:11 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000876	0.000300	0.000300	0.000530	115	85	115			N

Sample ID:	1105192-07AMSD	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 09:28 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000807	0.000300	0.000300	0.000530	92.4	85	115	8.19	20	N

Sample ID:	LCS-46519	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	LCS	Run ID:	ICMS_110526A		Analysis Date:	05/27/11 11:32 AM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000336	0.000300	0.000300	0	112	85	115			N

Sample ID:	MB-46519	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MBLK	Run ID:	ICMS_110526A		Analysis Date:	05/27/11 11:50 AM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1105192-13AMS	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 01:10 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00485	0.000300	0.000300	0.00452	111	85	115			N

Sample ID:	1105192-13AMSD	Batch ID:	46519		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 01:28 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.000300	0.000300	0.00452	136	85	115	1.51	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000220	0.000300	0.000200	0	110	70	130			N

Sample ID:	ICV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00202	0.000300	0.00200	0	101	85	115			N

Sample ID:	ICS1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000261	0.000300	0.000300	0	87.1	85	115			N

Sample ID:	CCV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00506	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000227	0.000300	0.000200	0	114	70	130			N

Sample ID:	CCV2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 09:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00493	0.000300	0.00500	0	98.6	85	115			N

Sample ID:	LCVL3-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 10:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000257	0.000300	0.000200	0	129	70	130			N

Sample ID:	LCVL1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000196	0.000300	0.000200	0	98.2	70	130			N

Sample ID:	ICV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00200	0.000300	0.00200	0	100	85	115			N

Sample ID:	ICS1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 11:14 AM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:04 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:22 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:31 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:48 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 11:06 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 01:45 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 02:03 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:23 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:41 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105192-07A	21105042607	SW6860	46519	1	05/26/11 08:53 PM	05/26/11
1105192-07AMS	21105042607MS	SW6860	46519	1	05/26/11 09:11 PM	05/26/11
1105192-07AMSD	21105042607MSD	SW6860	46519	1	05/26/11 09:28 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
LCS-46519	-----	SW6860	46519	1	05/27/11 11:32 AM	05/26/11
MB-46519	-----	SW6860	46519	1	05/27/11 11:50 AM	05/26/11
1105192-01A	21105042601	SW6860	46519	1	05/27/11 12:07 PM	05/26/11
1105192-02A	21105042602	SW6860	46519	1	05/27/11 12:25 PM	05/26/11
1105192-03A	21105042603	SW6860	46519	1	05/27/11 12:43 PM	05/26/11
1105192-04A	21105042604	SW6860	46519	1	05/27/11 01:00 PM	05/26/11
1105192-05A	21105042605	SW6860	46519	1	05/27/11 01:18 PM	05/26/11
1105192-06A	21105042606	SW6860	46519	1	05/27/11 01:36 PM	05/26/11
1105192-08A	21105042611	SW6860	46519	1	05/27/11 01:54 PM	05/26/11
1105192-09A	21105042612	SW6860	46519	1	05/27/11 02:11 PM	05/26/11
1105192-10A	21105042613	SW6860	46519	1	05/27/11 02:29 PM	05/26/11
1105192-11A	21105042614	SW6860	46519	1	05/27/11 02:47 PM	05/26/11
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
1105192-12A	21105042615	SW6860	46519	1	05/31/11 11:24 AM	05/26/11
1105192-14A	21105042620	SW6860	46519	1	05/31/11 11:42 AM	05/26/11
1105192-15A	21105042621	SW6860	46519	1	05/31/11 11:59 AM	05/26/11

DHL Analytical

Date: 06/03/11

Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1105192-16A	21105190401	SW6860	46519	1	05/31/11 12:17 PM	05/26/11
1105192-17A	21105042622	SW6860	46519	1	05/31/11 12:35 PM	05/26/11
1105192-13A	21105042616	SW6860	46519	1	05/31/11 12:52 PM	05/26/11
1105192-13AMS	21105042616MS	SW6860	46519	1	05/31/11 01:10 PM	05/26/11
1105192-13AMSD	21105042616MSD	SW6860	46519	1	05/31/11 01:28 PM	05/26/11
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 02/11/2013

GCAL Report 211050608

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose AFB Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050608

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q - LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, the %D is outside ±20% for Acetone (23) in the CCV (MSV11, 05/11/11).

In the SW-846 8260B analysis for analytical batch 456001, Acetone was detected at a concentration > ½ the RL in the method blank and is therefore flagged B on the form 1s for the associated samples. The concentration is acceptable at < RL for this common lab contaminant.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis for prep batch 455907, the MS/MSD exhibited numerous recovery failures above the upper control limits. All LCS/LCSD recoveries are acceptable with the exception of recoveries below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis prep batch 456236, the LCS/LCSD recoveries are below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis, the recovery for HMX is outside the control limits in the ICV (HPLC2 05/11/11).

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C dissolved and total analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium on ICP6, 05/25/11 at 1921. The data is reported

with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C Dissolved analysis for prep batch 456484, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2147. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2215. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456553, the MS/MSD recoveries are not applicable for Calcium, Sodium, and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2315. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2326. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (IC6, 05/20/11; 2139, 2307, 0037) is greater than the LOD but less than the PQL. The concentrations are insignificant as compared to the concentration detected in the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21105060801 (MA02MW001D), 21105060802 (M114MW004), 21105060805 (M114MW002), 21105060807 (M114MW003), 21105060810 (MA01MW001), 21105060811 (MA01MW001-MS), 21105060812 (MA01MW001-MSD), 21105060815 (M114MW001), 21105060816 (M114MW001-DUP), 21105060818 (MAOMW004), 21105060819 (MAOMW003), 21105170901 (MAO1MW002) and 21105170902 (MWQ23) had to be diluted in order to bracket the concentration of the target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21105060801 (MA02MW001D), 21105060815 (M114MW001), and 21105060816 (M114MW001-DUP) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite.

In the SW-846 9012A analysis for prep batch 456439, the MS recovery is outside the control limits for Total Cyanide. All other batch QC is acceptable.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105060818 (MAOMW004) and 21105060819 (MAOMW003) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

An aliquot of samples 21105060802 (M114MW004) and 21105170902 (MWQ23) had to be filtered and preserved at the laboratory for dissolved metals.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211050608

THIS REPORT CONTAINS 225 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10
21105060803	TB1	Water	05/05/2011 09:26	05/06/2011 09:10
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57
21105060808	TB4	Water	05/06/2011 00:00	05/07/2011 08:57
21105060809	TB5	Water	05/06/2011 00:00	05/07/2011 08:57
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50
21105060813	MA01MW001-DUP	Water	05/09/2011 14:16	05/10/2011 08:50
21105060814	TB6	Water	05/09/2011 00:00	05/10/2011 08:50
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25
21105060817	TB8	Water	05/10/2011 00:00	05/11/2011 07:25
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45
21105060820	TB7	Water	05/10/2011 00:00	05/11/2011 08:45
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00
21105170903	TB9	Water	05/16/2011 00:00	05/17/2011 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2190	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	5.99J	10.0	2.53	ug/L
7440-39-3	Barium	12.7	10.0	0.11	ug/L
7440-70-2	Calcium	127000	100	50.0	ug/L
7440-47-3	Chromium	1.46J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.46J	10.0	1.00	ug/L
7440-50-8	Copper	116	10.0	1.37	ug/L
7439-95-4	Magnesium	73500	100	50.0	ug/L
7439-96-5	Manganese	208	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.5J	50.0	3.75	ug/L
7440-02-0	Nickel	1.44J	40.0	0.96	ug/L
7440-09-7	Potassium	10300	500	100	ug/L
7782-49-2	Selenium	107	40.0	4.34	ug/L
7440-62-2	Vanadium	66.2	20.0	3.75	ug/L
7440-66-6	Zinc	128	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1910000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	79.6J	200	60.0	ug/L
7440-70-2	Calcium	127000	100	50.0	ug/L
7440-47-3	Chromium	2.52J	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.52J	10.0	1.00	ug/L
7440-50-8	Copper	226	10.0	1.37	ug/L
7439-95-4	Magnesium	71800	100	50.0	ug/L
7439-96-5	Manganese	248	15.0	2.00	ug/L
7439-98-7	Molybdenum	18.1J	50.0	3.75	ug/L
7440-02-0	Nickel	1.31J	40.0	0.96	ug/L
7440-09-7	Potassium	10400	500	100	ug/L
7782-49-2	Selenium	94.7	40.0	4.34	ug/L
7440-62-2	Vanadium	69.9	20.0	3.75	ug/L
7440-66-6	Zinc	129	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1930000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	19.8	10.0	0.11	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004J	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6290	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	130	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.56	0.050	0.013	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	16.0	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4180	100	21.0	mg/L
14808-79-8	Sulfate	2110	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.35B	5.00	0.20	ug/L
7440-70-2	Calcium	326000	100	50.0	ug/L
7440-47-3	Chromium	5.33B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.33B	10.0	1.00	ug/L
7440-50-8	Copper	36.9	10.0	1.37	ug/L
7439-95-4	Magnesium	285000	100	50.0	ug/L
7439-96-5	Manganese	5.27B	15.0	2.00	ug/L
7439-98-7	Molybdenum	12.5B	50.0	3.75	ug/L
7440-09-7	Potassium	20300	500	100	ug/L
7782-49-2	Selenium	19.6B	40.0	4.34	ug/L
7440-62-2	Vanadium	74.9	20.0	3.75	ug/L
7440-66-6	Zinc	655	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2260000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.8	10.0	0.11	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.6	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.900	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	12.4	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	4.59B	60.0	4.03	ug/L
7440-38-2	Arsenic	4.01B	10.0	2.53	ug/L
7440-39-3	Barium	17.8	10.0	0.11	ug/L
7440-43-9	Cadmium	0.90B	5.00	0.20	ug/L
7440-70-2	Calcium	338000	100	50.0	ug/L
7440-47-3	Chromium	4.02B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	4.02B	10.0	1.00	ug/L
7440-50-8	Copper	35.2	10.0	1.37	ug/L
7439-95-4	Magnesium	295000	100	50.0	ug/L
7439-96-5	Manganese	3.11B	15.0	2.00	ug/L
7439-98-7	Molybdenum	13.0B	50.0	3.75	ug/L
7440-09-7	Potassium	20600	500	100	ug/L
7782-49-2	Selenium	18.9B	40.0	4.34	ug/L
7440-62-2	Vanadium	68.9	20.0	3.75	ug/L
7440-66-6	Zinc	653	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2240000	25000	5000	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7000	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.51J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3660	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	78.8B	200	60.0	ug/L
7440-70-2	Calcium	252000	100	50.0	ug/L
7440-47-3	Chromium	8.55B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	8.55B	10.0	1.00	ug/L
7440-50-8	Copper	29.8	10.0	1.37	ug/L
7439-89-6	Iron	160	100	40.0	ug/L
7439-95-4	Magnesium	238000	100	50.0	ug/L
7439-96-5	Manganese	9.22B	15.0	2.00	ug/L
7439-98-7	Molybdenum	20.5B	50.0	3.75	ug/L
7440-02-0	Nickel	27.0B	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	20.0B	40.0	4.34	ug/L
7440-62-2	Vanadium	81.0	20.0	3.75	ug/L
7440-66-6	Zinc	175	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2040000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.9	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	17.5	10.0	0.11	ug/L
7440-43-9	Cadmium	0.69B	5.00	0.20	ug/L
7440-70-2	Calcium	257000	100	50.0	ug/L
7440-47-3	Chromium	5.75B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.75B	10.0	1.00	ug/L
7440-50-8	Copper	25.1	10.0	1.37	ug/L
7439-95-4	Magnesium	244000	100	50.0	ug/L
7439-98-7	Molybdenum	20.5B	50.0	3.75	ug/L
7440-02-0	Nickel	26.2B	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	21.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	74.3	20.0	3.75	ug/L
7440-66-6	Zinc	163	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2020000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.375	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7800	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	69.2	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	16.3	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.111	0.100	0.021	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	81.2B	100	50.0	ug/L
7440-50-8	Copper	5.31B	10.0	1.37	ug/L
7439-96-5	Manganese	3.46B	15.0	2.00	ug/L
7440-09-7	Potassium	166B	500	100	ug/L
7440-66-6	Zinc	7.09B	20.0	2.72	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.49B	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	199B	200	60.0	ug/L
7440-38-2	Arsenic	2.57B	10.0	2.53	ug/L
7440-39-3	Barium	3.53B	10.0	0.11	ug/L
7440-43-9	Cadmium	0.25B	5.00	0.20	ug/L
7440-50-8	Copper	10.3	10.0	1.37	ug/L
7440-09-7	Potassium	142B	500	100	ug/L
7440-66-6	Zinc	10.3B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	547	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	22.0	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	3.54J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4550	100	21.0	mg/L
14808-79-8	Sulfate	2460	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	67.3B	200	60.0	ug/L
7440-39-3	Barium	14.6	10.0	0.11	ug/L
7440-43-9	Cadmium	0.81B	5.00	0.20	ug/L
7440-70-2	Calcium	342000	100	50.0	ug/L
7440-47-3	Chromium	3.89B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.89B	10.0	1.00	ug/L
7440-50-8	Copper	22.0	10.0	1.37	ug/L
7439-95-4	Magnesium	271000	100	50.0	ug/L
7439-98-7	Molybdenum	8.48B	50.0	3.75	ug/L
7440-09-7	Potassium	19700	500	100	ug/L
7782-49-2	Selenium	31.5B	40.0	4.34	ug/L
7440-62-2	Vanadium	76.2	20.0	3.75	ug/L
7440-66-6	Zinc	14.2B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2550000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	63.6B	200	60.0	ug/L
7440-70-2	Calcium	342000	100	50.0	ug/L
7440-47-3	Chromium	6.04B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	6.04B	10.0	1.00	ug/L
7440-50-8	Copper	23.7	10.0	1.37	ug/L
7439-89-6	Iron	130	100	40.0	ug/L
7439-95-4	Magnesium	270000	100	50.0	ug/L
7439-96-5	Manganese	7.83B	15.0	2.00	ug/L
7439-98-7	Molybdenum	8.07B	50.0	3.75	ug/L
7440-09-7	Potassium	19800	500	100	ug/L
7782-49-2	Selenium	30.7B	40.0	4.34	ug/L
7440-62-2	Vanadium	79.7	20.0	3.75	ug/L
7440-66-6	Zinc	17.5B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2620000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	20.9	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.719	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	44.5	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	4.55	1	0.078	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9540	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	3.22J	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	651	50.0	10.5	mg/L
14808-79-8	Sulfate	704	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	105B	200	60.0	ug/L
7440-39-3	Barium	18.0	10.0	0.11	ug/L
7440-70-2	Calcium	50800	100	50.0	ug/L
7440-47-3	Chromium	2.24B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.24B	10.0	1.00	ug/L
7440-50-8	Copper	13.4	10.0	1.37	ug/L
7439-89-6	Iron	46.6B	100	40.0	ug/L
7439-95-4	Magnesium	50100	100	50.0	ug/L
7439-96-5	Manganese	2.16B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.66B	50.0	3.75	ug/L
7440-09-7	Potassium	7880	500	100	ug/L
7440-32-6	Titanium	1.53B	100	1.20	ug/L
7440-62-2	Vanadium	58.3	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	588000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	276	200	60.0	ug/L
7440-70-2	Calcium	49700	100	50.0	ug/L
7440-47-3	Chromium	8.54B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	8.54B	10.0	1.00	ug/L
7440-50-8	Copper	14.3	10.0	1.37	ug/L
7439-89-6	Iron	204	100	40.0	ug/L
7439-95-4	Magnesium	48700	100	50.0	ug/L
7439-96-5	Manganese	12.6B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.94B	50.0	3.75	ug/L
7440-02-0	Nickel	2.96B	40.0	0.96	ug/L
7440-09-7	Potassium	7780	500	100	ug/L
7440-32-6	Titanium	3.16B	100	1.20	ug/L
7440-62-2	Vanadium	61.1	20.0	3.75	ug/L
7440-66-6	Zinc	2.74B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	567000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	27.8	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.233	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1980	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.21	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	6.28	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0473	0.0050	0.0006	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1900	50.0	10.5	mg/L
14808-79-8	Sulfate	3260	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.66	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5040	200	60.0	ug/L
7440-36-0	Antimony	535	60.0	4.03	ug/L
7440-38-2	Arsenic	552	10.0	2.53	ug/L
7440-39-3	Barium	524	10.0	0.11	ug/L
7440-41-7	Beryllium	522	5.00	0.11	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-70-2	Calcium	56100	100	50.0	ug/L
7440-47-3	Chromium	498	10.0	1.00	ug/L
7440-48-4	Cobalt	512	10.0	1.00	ug/L
7440-50-8	Copper	535	10.0	1.37	ug/L
7439-89-6	Iron	5030	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	54200	100	50.0	ug/L
7439-96-5	Manganese	515	15.0	2.00	ug/L
7439-98-7	Molybdenum	526	50.0	3.75	ug/L
7440-02-0	Nickel	507	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	540	40.0	4.34	ug/L
7440-22-4	Silver	518	10.0	0.60	ug/L
7440-28-0	Thallium	498	20.0	1.75	ug/L
7440-32-6	Titanium	507	100	1.20	ug/L
7440-62-2	Vanadium	581	20.0	3.75	ug/L
7440-66-6	Zinc	532	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	620000	5000	1000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.78	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5230	200	60.0	ug/L
7440-36-0	Antimony	515	60.0	4.03	ug/L
7440-38-2	Arsenic	517	10.0	2.53	ug/L
7440-41-7	Beryllium	496	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	54200	100	50.0	ug/L
7440-47-3	Chromium	483	10.0	1.00	ug/L
7440-48-4	Cobalt	496	10.0	1.00	ug/L
7440-50-8	Copper	517	10.0	1.37	ug/L
7439-89-6	Iron	5090	100	40.0	ug/L
7439-92-1	Lead	484	15.0	1.39	ug/L
7439-95-4	Magnesium	53100	100	50.0	ug/L
7439-96-5	Manganese	503	15.0	2.00	ug/L
7439-98-7	Molybdenum	513	50.0	3.75	ug/L
7440-02-0	Nickel	494	40.0	0.96	ug/L
7440-09-7	Potassium	18000	500	100	ug/L
7782-49-2	Selenium	511	40.0	4.34	ug/L
7440-22-4	Silver	492	10.0	0.60	ug/L
7440-28-0	Thallium	478	20.0	1.75	ug/L
7440-32-6	Titanium	491	100	1.20	ug/L
7440-62-2	Vanadium	562	20.0	3.75	ug/L
7440-66-6	Zinc	507	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	513	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.728	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.488	0.010	0.003	mg/L-N

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	478	10.0	2.80	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.24	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	3.54	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.45	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	3.40	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	3.53	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.36	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	4.28	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	3.60	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.28	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	3.76	0.556	0.129	ug/L
2691-41-0	HMX	2.79	0.222	0.039	ug/L
98-95-3	Nitrobenzene	3.60	0.556	0.151	ug/L
121-82-4	RDX	2.88	0.222	0.073	ug/L
479-45-8	Tetryl	4.11	0.556	0.222	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.6	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	50.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.4	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.7	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.6	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.6	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.1	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.2	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	51.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.9	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.8	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	38.4	1	0.112	ug/L
78-93-3	2-Butanone	44.7	5	0.235	ug/L
95-49-8	2-Chlorotoluene	55.3	1	0.090	ug/L
591-78-6	2-Hexanone	39.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	48.3	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	48.2	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	44.8	5	0.142	ug/L
67-64-1	Acetone	31.1	5	0.322	ug/L
71-43-2	Benzene	48.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.8	1	0.095	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	52.7	1	0.071	ug/L
75-25-2	Bromoform	45.4	1	0.278	ug/L
74-83-9	Bromomethane	43.7	1	0.276	ug/L
75-15-0	Carbon disulfide	49.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	51.6	1	0.056	ug/L
108-90-7	Chlorobenzene	48.6	1	0.055	ug/L
75-00-3	Chloroethane	52.3	1	0.279	ug/L
67-66-3	Chloroform	49.8	1	0.062	ug/L
74-87-3	Chloromethane	50.6	1	0.076	ug/L
74-95-3	Dibromomethane	50.0	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	51.1	1	0.088	ug/L
100-41-4	Ethylbenzene	53.1	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.8	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.4	1	0.058	ug/L
75-09-2	Methylene chloride	47.5	5	0.102	ug/L
91-20-3	Naphthalene	44.0	1	0.175	ug/L
100-42-5	Styrene	47.7	1	0.058	ug/L
127-18-4	Tetrachloroethene	51.6	1	0.141	ug/L
108-88-3	Toluene	54.8	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	49.4	1	0.094	ug/L
75-01-4	Vinyl chloride	50.7	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.5	1	0.105	ug/L
136777-61-2	m,p-Xylene	98.1	2	0.099	ug/L
104-51-8	n-Butylbenzene	48.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	48.8	1	0.069	ug/L
95-47-6	o-Xylene	49.5	1	0.077	ug/L
135-98-8	sec-Butylbenzene	48.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	38.7	5	0.084	ug/L
98-06-6	tert-Butylbenzene	49.2	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	51.4	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.6	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1890	50.0	10.5	mg/L
14808-79-8	Sulfate	3230	100	39.5	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0481	0.0050	0.0006	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.80	0.20	0.081	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4850	200	60.0	ug/L
7440-36-0	Antimony	518	60.0	4.03	ug/L
7440-38-2	Arsenic	518	10.0	2.53	ug/L
7440-39-3	Barium	496	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L
7440-70-2	Calcium	54000	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	490	10.0	1.00	ug/L
7440-50-8	Copper	509	10.0	1.37	ug/L
7439-89-6	Iron	4870	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	53200	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	510	50.0	3.75	ug/L
7440-02-0	Nickel	486	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	514	40.0	4.34	ug/L
7440-22-4	Silver	491	10.0	0.60	ug/L
7440-28-0	Thallium	477	20.0	1.75	ug/L
7440-32-6	Titanium	486	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	506	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	585000	5000	1000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.80	0.20	0.081	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5210	200	60.0	ug/L
7440-36-0	Antimony	508	60.0	4.03	ug/L
7440-38-2	Arsenic	508	10.0	2.53	ug/L
7440-41-7	Beryllium	498	5.00	0.11	ug/L
7440-43-9	Cadmium	484	5.00	0.20	ug/L
7440-70-2	Calcium	54700	100	50.0	ug/L
7440-47-3	Chromium	485	10.0	1.00	ug/L
7440-48-4	Cobalt	488	10.0	1.00	ug/L
7440-50-8	Copper	519	10.0	1.37	ug/L
7439-89-6	Iron	5010	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	52100	100	50.0	ug/L
7439-96-5	Manganese	504	15.0	2.00	ug/L
7439-98-7	Molybdenum	509	50.0	3.75	ug/L
7440-02-0	Nickel	487	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	499	40.0	4.34	ug/L
7440-22-4	Silver	494	10.0	0.60	ug/L
7440-28-0	Thallium	470	20.0	1.75	ug/L
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	563	20.0	3.75	ug/L
7440-66-6	Zinc	509	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	515	10.0	0.11	ug/L

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.18	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	3.44	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.33	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	3.28	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	3.43	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.24	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	4.09	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	3.46	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.21	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	3.62	0.510	0.118	ug/L
2691-41-0	HMX	2.71	0.204	0.036	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
98-95-3	Nitrobenzene	3.39	0.510	0.139	ug/L
121-82-4	RDX	3.01	0.204	0.067	ug/L
479-45-8	Tetryl	4.23	0.510	0.204	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.729	0.010	0.003	mg/L-N

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	495	10.0	2.80	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.1	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	49.1	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	47.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	53.2	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.3	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	49.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.1	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.2	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.0	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	48.5	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.1	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.0	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.0	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	39.8	1	0.112	ug/L
78-93-3	2-Butanone	42.2	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.8	1	0.090	ug/L
591-78-6	2-Hexanone	39.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.2	1	0.046	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
99-87-6	4-Isopropyltoluene	46.3	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	43.4	5	0.142	ug/L
67-64-1	Acetone	32.3	5	0.322	ug/L
71-43-2	Benzene	46.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.1	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	50.7	1	0.071	ug/L
75-25-2	Bromoform	44.1	1	0.278	ug/L
74-83-9	Bromomethane	45.2	1	0.276	ug/L
75-15-0	Carbon disulfide	47.4	1	0.190	ug/L
56-23-5	Carbon tetrachloride	50.4	1	0.056	ug/L
108-90-7	Chlorobenzene	46.7	1	0.055	ug/L
75-00-3	Chloroethane	50.3	1	0.279	ug/L
67-66-3	Chloroform	48.2	1	0.062	ug/L
74-87-3	Chloromethane	52.2	1	0.076	ug/L
74-95-3	Dibromomethane	49.6	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.5	1	0.088	ug/L
100-41-4	Ethylbenzene	50.4	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	46.2	1	0.058	ug/L
75-09-2	Methylene chloride	46.4	5	0.102	ug/L
91-20-3	Naphthalene	43.7	1	0.175	ug/L
100-42-5	Styrene	46.0	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.3	1	0.141	ug/L
108-88-3	Toluene	52.2	1	0.078	ug/L
79-01-6	Trichloroethene	47.4	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	46.9	1	0.094	ug/L
75-01-4	Vinyl chloride	48.6	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	51.1	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.9	1	0.105	ug/L
136777-61-2	m,p-Xylene	94.0	2	0.099	ug/L
104-51-8	n-Butylbenzene	46.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	47.3	1	0.069	ug/L
95-47-6	o-Xylene	47.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	46.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	40.0	5	0.084	ug/L
98-06-6	tert-Butylbenzene	47.1	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	49.0	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.7	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1970	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3280	100	21.0	mg/L
14808-79-8	Sulfate	2140	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	77.6B	200	60.0	ug/L
7440-38-2	Arsenic	2.74B	10.0	2.53	ug/L
7440-39-3	Barium	18.7	10.0	0.11	ug/L
7440-43-9	Cadmium	0.88B	5.00	0.20	ug/L
7440-70-2	Calcium	280000	100	50.0	ug/L
7440-47-3	Chromium	5.00B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.00B	10.0	1.00	ug/L
7440-50-8	Copper	21.0	10.0	1.37	ug/L
7439-95-4	Magnesium	250000	100	50.0	ug/L
7439-98-7	Molybdenum	17.9B	50.0	3.75	ug/L
7440-02-0	Nickel	19.1B	40.0	0.96	ug/L
7440-09-7	Potassium	19300	500	100	ug/L
7782-49-2	Selenium	28.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	73.5	20.0	3.75	ug/L
7440-66-6	Zinc	46.8	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2020000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.31B	5.00	0.20	ug/L
7440-70-2	Calcium	269000	100	50.0	ug/L
7440-47-3	Chromium	7.48B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	7.48B	10.0	1.00	ug/L
7440-50-8	Copper	22.5	10.0	1.37	ug/L
7439-89-6	Iron	79.9B	100	40.0	ug/L
7439-95-4	Magnesium	239000	100	50.0	ug/L
7439-96-5	Manganese	4.10B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-98-7	Molybdenum	16.9B	50.0	3.75	ug/L
7440-02-0	Nickel	19.7B	40.0	0.96	ug/L
7440-09-7	Potassium	18500	500	100	ug/L
7782-49-2	Selenium	31.1B	40.0	4.34	ug/L
7440-62-2	Vanadium	75.3	20.0	3.75	ug/L
7440-66-6	Zinc	47.2	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1960000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.7	10.0	0.11	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.901	0.050	0.013	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.1	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8270	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	3.06	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3250	100	21.0	mg/L
14808-79-8	Sulfate	2150	200	79.0	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	64.5B	200	60.0	ug/L
7440-43-9	Cadmium	0.30B	5.00	0.20	ug/L
7440-70-2	Calcium	276000	100	50.0	ug/L
7440-47-3	Chromium	7.87B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	7.87B	10.0	1.00	ug/L
7440-50-8	Copper	22.8	10.0	1.37	ug/L
7439-89-6	Iron	91.3B	100	40.0	ug/L
7439-95-4	Magnesium	244000	100	50.0	ug/L
7439-96-5	Manganese	4.33B	15.0	2.00	ug/L
7439-98-7	Molybdenum	17.6B	50.0	3.75	ug/L
7440-02-0	Nickel	20.7B	40.0	0.96	ug/L
7440-09-7	Potassium	19400	500	100	ug/L
7782-49-2	Selenium	27.2B	40.0	4.34	ug/L
7440-62-2	Vanadium	76.3	20.0	3.75	ug/L
7440-66-6	Zinc	50.5	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2060000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	25.3	10.0	0.11	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	18.8	10.0	0.11	ug/L
7440-43-9	Cadmium	0.83B	5.00	0.20	ug/L
7440-70-2	Calcium	278000	100	50.0	ug/L
7440-47-3	Chromium	5.16B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	5.16B	10.0	1.00	ug/L
7440-50-8	Copper	20.5	10.0	1.37	ug/L
7439-95-4	Magnesium	248000	100	50.0	ug/L
7439-98-7	Molybdenum	18.2B	50.0	3.75	ug/L
7440-02-0	Nickel	19.6B	40.0	0.96	ug/L
7440-09-7	Potassium	19400	500	100	ug/L
7782-49-2	Selenium	26.8B	40.0	4.34	ug/L
7440-62-2	Vanadium	72.4	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	46.9	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2040000	25000	5000	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8310	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.915	0.020	0.005	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	82.1	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	2.99	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	269	20.0	4.20	mg/L
14808-79-8	Sulfate	352	40.0	15.8	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0013B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.7	10.0	0.11	ug/L
7440-70-2	Calcium	36800	100	50.0	ug/L
7440-47-3	Chromium	1.30B	10.0	1.00	ug/L
7440-50-8	Copper	23.0	10.0	1.37	ug/L
7439-95-4	Magnesium	35000	100	50.0	ug/L
7439-96-5	Manganese	2.26B	15.0	2.00	ug/L
7439-98-7	Molybdenum	6.27B	50.0	3.75	ug/L
7440-09-7	Potassium	6400	500	100	ug/L
7440-62-2	Vanadium	56.4	20.0	3.75	ug/L
7440-66-6	Zinc	9.80B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	297000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	38200	100	50.0	ug/L
7440-47-3	Chromium	5.09B	10.0	1.00	ug/L
7440-50-8	Copper	87.7	10.0	1.37	ug/L
7439-89-6	Iron	176	100	40.0	ug/L
7439-92-1	Lead	2.30B	15.0	1.39	ug/L
7439-95-4	Magnesium	36600	100	50.0	ug/L
7439-96-5	Manganese	6.88B	15.0	2.00	ug/L
7439-98-7	Molybdenum	7.31B	50.0	3.75	ug/L
7440-02-0	Nickel	2.29B	40.0	0.96	ug/L
7440-09-7	Potassium	6610	500	100	ug/L
7782-49-2	Selenium	4.44B	40.0	4.34	ug/L
7440-62-2	Vanadium	58.8	20.0	3.75	ug/L
7440-66-6	Zinc	22.3	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	308000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	30.7	10.0	0.11	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	192	1.0	0.21	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1110	10.0	10.0	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	7.00B	10.0	2.80	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.615	0.010	0.003	mg/L-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	17.6	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	537	50.0	10.5	mg/L
14808-79-8	Sulfate	616	100	39.5	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	20.2	10.0	0.11	ug/L
7440-70-2	Calcium	59600	100	50.0	ug/L
7440-47-3	Chromium	2.19B	10.0	1.00	ug/L
7440-50-8	Copper	17.7	10.0	1.37	ug/L
7439-95-4	Magnesium	60300	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-98-7	Molybdenum	4.09B	50.0	3.75	ug/L
7440-09-7	Potassium	8430	500	100	ug/L
7440-62-2	Vanadium	65.5	20.0	3.75	ug/L
7440-66-6	Zinc	4.16B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	458000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	111B	200	60.0	ug/L
7440-70-2	Calcium	63100	100	50.0	ug/L
7440-47-3	Chromium	4.46B	10.0	1.00	ug/L
7440-50-8	Copper	44.0	10.0	1.37	ug/L
7439-89-6	Iron	116	100	40.0	ug/L
7439-95-4	Magnesium	63400	100	50.0	ug/L
7439-96-5	Manganese	7.94B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.39B	50.0	3.75	ug/L
7440-09-7	Potassium	8970	500	100	ug/L
7440-62-2	Vanadium	68.2	20.0	3.75	ug/L
7440-66-6	Zinc	13.4B	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	469000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	28.8	10.0	0.11	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	18.0	10.0	2.80	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.163	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1760	10.0	10.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	7.24	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	164B	200	60.0	ug/L
7440-39-3	Barium	16.5	10.0	0.11	ug/L
7440-70-2	Calcium	37400	100	50.0	ug/L
7440-47-3	Chromium	2.09B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	2.09B	10.0	1.00	ug/L
7440-50-8	Copper	11.6	10.0	1.37	ug/L
7439-95-4	Magnesium	36700	100	50.0	ug/L
7439-98-7	Molybdenum	8.79B	50.0	3.75	ug/L
7440-09-7	Potassium	7280	500	100	ug/L
7440-62-2	Vanadium	53.4	20.0	3.75	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	527000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	102	60.0	4.03	ug/L
7440-39-3	Barium	17.6	10.0	0.11	ug/L
7440-70-2	Calcium	35100	100	50.0	ug/L
7440-47-3	Chromium	3.05B	10.0	1.00	ug/L
16065-83-1	Chromium (III)	3.05B	10.0	1.00	ug/L
7440-50-8	Copper	11.0	10.0	1.37	ug/L
7439-95-4	Magnesium	34200	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	2.76B	15.0	2.00	ug/L
7439-98-7	Molybdenum	7.44B	50.0	3.75	ug/L
7440-09-7	Potassium	6860	500	100	ug/L
7782-49-2	Selenium	5.87B	40.0	4.34	ug/L
7440-62-2	Vanadium	50.8	20.0	3.75	ug/L
7440-66-6	Zinc	20.1	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	491000	1000	200	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	473	20.0	4.20	mg/L
14808-79-8	Sulfate	544	40.0	15.8	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.325	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1780	10.0	10.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	1.89	1	0.078	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.9	10.0	0.11	ug/L
7440-70-2	Calcium	14400	100	50.0	ug/L
7440-50-8	Copper	5.49B	10.0	1.37	ug/L
7439-95-4	Magnesium	9750	100	50.0	ug/L
7439-96-5	Manganese	70.1	15.0	2.00	ug/L
7439-98-7	Molybdenum	34.0B	50.0	3.75	ug/L
7440-09-7	Potassium	2680	500	100	ug/L
7440-62-2	Vanadium	16.5B	20.0	3.75	ug/L
7440-66-6	Zinc	25.0	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	489000	1000	200	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.23B	10.0	2.53	ug/L
7440-39-3	Barium	13.3	10.0	0.11	ug/L
7440-70-2	Calcium	13600	100	50.0	ug/L
7440-50-8	Copper	4.95B	10.0	1.37	ug/L
7439-89-6	Iron	43.8B	100	40.0	ug/L
7439-92-1	Lead	1.92B	15.0	1.39	ug/L
7439-95-4	Magnesium	9350	100	50.0	ug/L
7439-96-5	Manganese	66.8	15.0	2.00	ug/L
7439-98-7	Molybdenum	31.9B	50.0	3.75	ug/L
7440-09-7	Potassium	2520	500	100	ug/L
7440-62-2	Vanadium	16.1B	20.0	3.75	ug/L
7440-66-6	Zinc	24.7	20.0	2.72	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	451000	1000	200	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	235	20.0	4.20	mg/L
14808-79-8	Sulfate	423	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1420	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**327**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 21:36	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 21:36	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**16.0**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.8	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:11	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.278U	1.00	0.278	ug/L
99-65-0	1,3-Dinitrobenzene	0.504U	2.00	0.504	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.606U	2.00	0.606	ug/L
121-14-2	2,4-Dinitrotoluene	0.250U	1.00	0.250	ug/L
606-20-2	2,6-Dinitrotoluene	0.216U	1.00	0.216	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.250U	1.00	0.250	ug/L
88-72-2	2-Nitrotoluene	0.178U	1.00	0.178	ug/L
99-08-1	3-Nitrotoluene	0.214U	1.00	0.214	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.216U	1.00	0.216	ug/L
99-99-0	4-Nitrotoluene	0.232U	1.00	0.232	ug/L
2691-41-0	HMX	0.070U	0.400	0.070	ug/L
98-95-3	Nitrobenzene	0.272U	1.00	0.272	ug/L
121-82-4	RDX	0.132U	0.400	0.132	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:11	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.400U	1.00	0.400	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	4	2.78	ug/L	70	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:28	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:55	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:59	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**79.6J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**127000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.52J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.52J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**226**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**71800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**248**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**18.1J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.31J**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**94.7**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:59	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**69.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**129**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:01	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1930000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:45	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**19.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:33	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**5.99J**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**12.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**127000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.46J**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**1.46J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**116**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**73500**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**208**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.5J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.44J**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**10300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**107**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:33	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**66.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**128**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:10	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1910000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**6290**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/06/2011 15:56	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.56**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:10	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004J**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	**MAO2MW001D**	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:02	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**2190**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2130**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**130**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:37	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:11	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:05	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:05	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**12.4**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.8	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:58	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 07:58	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.64	ug/L	80	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:30	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:57	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:05	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.35B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**326000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.33B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.33B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**36.9**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**285000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.27B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**12.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**20300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**19.6B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:05	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**655**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:08	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2260000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:12	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:40	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**4.59B**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**4.01B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**17.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.90B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**338000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.02B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**4.02B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**35.2**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**295000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.11B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**13.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**20600**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**18.9B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:40	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**653**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:17	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2240000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 13:30	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7000**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:33	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.900**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:11	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	**M114MW004**	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:55	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4180**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2110**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**56.6**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:38	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 17:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:27	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.51J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060803	**TB1**	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:27	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.3	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:49	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 22:49	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.8	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:11	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:11	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**16.3**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.1	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 08:45	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.154U	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	0.280U	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.337U	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	0.139U	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	0.120U	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.139U	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	0.099U	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	0.119U	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.120U	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	0.129U	0.556	0.129	ug/L
2691-41-0	HMX	0.039U	0.222	0.039	ug/L
98-95-3	Nitrobenzene	0.151U	0.556	0.151	ug/L
121-82-4	RDX	0.073U	0.222	0.073	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 08:45	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.222U	0.556	0.222	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.22	1.76	ug/L	79	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:31	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:58	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:12	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**78.8B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**252000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**8.55B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**8.55B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**29.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**160**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**238000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**9.22B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**20.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**27.0B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**20.0B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:12	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**81.0**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**175**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:15	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2040000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:19	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:01	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**17.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.69B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**257000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.75B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.75B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.1**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**244000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**20.5B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**26.2B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18200**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**21.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:01	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**74.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**163**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:24	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2020000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7800**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:35	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.375**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:14	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	**M114MW002**	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:13	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3660**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2130**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**69.2**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:00	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:38	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**3.54J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 23:38	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 09:32	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 09:32	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	2.44	ug/L	120	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:36	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:00	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:19	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**81.2B**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.31B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**3.46B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**166B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:19	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**7.09B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 19:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	200U	1000	200	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:26	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**9.49B**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:07	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**199B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**2.57B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**3.53B**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.25B**	**5.00**	**0.20**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**142B**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:07	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**10.3B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 17:08	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**547**	**100**	**50.0**	**ug/L**
7440-23-5	Sodium	200U	1000	200	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**22.0**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:39	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:18	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	**EB1**	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 13:30	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.111**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 12:38	DJH	455971

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:03	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:15	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:01	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:01	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**4.55**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	49.9	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 02:44	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 02:44	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.69	ug/L	82	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:37	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:01	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:26	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**63.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**342000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**6.04B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**6.04B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**130**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**270000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**7.83B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**8.07B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**19800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.7B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:26	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**79.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**17.5B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:22	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2620000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:34	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**20.9**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**67.3B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**14.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.81B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**342000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.89B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.89B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**271000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**8.48B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**19700**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**31.5B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:15	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**14.2B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:31	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2550000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9540**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:40	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.719**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:19	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	**M114MW003**	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:48	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**4550**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2460**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**44.5**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:04	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:16	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:23	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**3.22J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060808	**TB4**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:23	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.5	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060809	**TB5**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:45	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060809	**TB5**	Water	05/06/2011 00:00	05/07/2011 08:57

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 00:45	CLH	456001

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.2	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 17:58	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 17:58	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**6.28**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	85 - 115
2037-26-5	Toluene d8	50	52.3	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 03:31	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.146U	0.526	0.146	ug/L
99-65-0	1,3-Dinitrobenzene	0.265U	1.05	0.265	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.319U	1.05	0.319	ug/L
121-14-2	2,4-Dinitrotoluene	0.132U	0.526	0.132	ug/L
606-20-2	2,6-Dinitrotoluene	0.114U	0.526	0.114	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.132U	0.526	0.132	ug/L
88-72-2	2-Nitrotoluene	0.094U	0.526	0.094	ug/L
99-08-1	3-Nitrotoluene	0.113U	0.526	0.113	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114U	0.526	0.114	ug/L
99-99-0	4-Nitrotoluene	0.122U	0.526	0.122	ug/L
2691-41-0	HMX	0.037U	0.211	0.037	ug/L
98-95-3	Nitrobenzene	0.143U	0.526	0.143	ug/L
121-82-4	RDX	0.069U	0.211	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/13/2011 03:31	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.211U	0.526	0.211	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.11	1.94	ug/L	92	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:20	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:43	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**276**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**49700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**8.54B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**8.54B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**14.3**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**204**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**48700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**12.6B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.94B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.96B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**7780**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:04	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**3.16B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**61.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**2.74B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:35	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**567000**	**5000**	**1000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 14:54	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**27.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 17:53	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**105B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**18.0**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**50800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.24B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.24B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.4**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**46.6B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**50100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.16B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.66B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**7880**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 17:53	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	**Titanium**	**1.53B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**58.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 16:46	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**588000**	**5000**	**1000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1980**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:37	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.233**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:32	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.004B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	**MAO1MW001**	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:05	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**651**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**704**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**169**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:22	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:19	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.3	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.6	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	50.6	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	50.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.4	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.7	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	48.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.6	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.6	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.1	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	48.2	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	51.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.9	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.8	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	38.4	1	0.112	ug/L
78-93-3	2-Butanone	44.7	5	0.235	ug/L
95-49-8	2-Chlorotoluene	55.3	1	0.090	ug/L
591-78-6	2-Hexanone	39.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	48.3	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	48.2	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	44.8	5	0.142	ug/L
67-64-1	Acetone	31.1	5	0.322	ug/L
71-43-2	Benzene	48.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.8	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	52.7	1	0.071	ug/L
75-25-2	Bromoform	45.4	1	0.278	ug/L
74-83-9	Bromomethane	43.7	1	0.276	ug/L
75-15-0	Carbon disulfide	49.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	51.6	1	0.056	ug/L
108-90-7	Chlorobenzene	48.6	1	0.055	ug/L
75-00-3	Chloroethane	52.3	1	0.279	ug/L
67-66-3	Chloroform	49.8	1	0.062	ug/L
74-87-3	Chloromethane	50.6	1	0.076	ug/L
74-95-3	Dibromomethane	50.0	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:19	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	51.1	1	0.088	ug/L
100-41-4	Ethylbenzene	53.1	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.8	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	48.4	1	0.058	ug/L
75-09-2	Methylene chloride	47.5	5	0.102	ug/L
91-20-3	Naphthalene	44.0	1	0.175	ug/L
100-42-5	Styrene	47.7	1	0.058	ug/L
127-18-4	Tetrachloroethene	51.6	1	0.141	ug/L
108-88-3	Toluene	54.8	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	49.4	1	0.094	ug/L
75-01-4	Vinyl chloride	50.7	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.5	1	0.105	ug/L
136777-61-2	m,p-Xylene	98.1	2	0.099	ug/L
104-51-8	n-Butylbenzene	48.1	1	0.068	ug/L
103-65-1	n-Propylbenzene	48.8	1	0.069	ug/L
95-47-6	o-Xylene	49.5	1	0.077	ug/L
135-98-8	sec-Butylbenzene	48.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	38.7	5	0.084	ug/L
98-06-6	tert-Butylbenzene	49.2	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	51.4	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	43.6	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	48.8	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 11:53	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	3.24	0.556	0.154	ug/L
99-65-0	1,3-Dinitrobenzene	3.54	1.11	0.280	ug/L
118-96-7	2,4,6-Trinitrotoluene	3.45	1.11	0.337	ug/L
121-14-2	2,4-Dinitrotoluene	3.40	0.556	0.139	ug/L
606-20-2	2,6-Dinitrotoluene	3.53	0.556	0.120	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	3.36	0.556	0.139	ug/L
88-72-2	2-Nitrotoluene	4.28	0.556	0.099	ug/L
99-08-1	3-Nitrotoluene	3.60	0.556	0.119	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	3.28	0.556	0.120	ug/L
99-99-0	4-Nitrotoluene	3.76	0.556	0.129	ug/L
2691-41-0	HMX	2.79	0.222	0.039	ug/L
98-95-3	Nitrobenzene	3.60	0.556	0.151	ug/L
121-82-4	RDX	2.88	0.222	0.073	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 11:53	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**4.11**	**0.556**	**0.222**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.22	1.79	ug/L	81	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:22	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.66**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:44	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.78**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:25	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5230**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**515**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**517**	**10.0**	**2.53**	**ug/L**
7440-41-7	**Beryllium**	**496**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**483**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**483**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**496**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**517**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5090**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**484**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**53100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**503**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**513**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**494**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18000**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**511**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**492**	**10.0**	**0.60**	**ug/L**
7440-28-0	**Thallium**	**478**	**20.0**	**1.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:25	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	491	100	1.20	ug/L
7440-62-2	Vanadium	562	20.0	3.75	ug/L
7440-66-6	Zinc	507	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:42	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:01	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	513	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5040	200	60.0	ug/L
7440-36-0	Antimony	535	60.0	4.03	ug/L
7440-38-2	Arsenic	552	10.0	2.53	ug/L
7440-39-3	Barium	524	10.0	0.11	ug/L
7440-41-7	Beryllium	522	5.00	0.11	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-70-2	Calcium	56100	100	50.0	ug/L
7440-47-3	Chromium	498	10.0	1.00	ug/L
7440-48-4	Cobalt	512	10.0	1.00	ug/L
7440-50-8	Copper	535	10.0	1.37	ug/L
7439-89-6	Iron	5030	100	40.0	ug/L
7439-92-1	Lead	501	15.0	1.39	ug/L
7439-95-4	Magnesium	54200	100	50.0	ug/L
7439-96-5	Manganese	515	15.0	2.00	ug/L
7439-98-7	Molybdenum	526	50.0	3.75	ug/L
7440-02-0	Nickel	507	40.0	0.96	ug/L
7440-09-7	Potassium	18200	500	100	ug/L
7782-49-2	Selenium	540	40.0	4.34	ug/L
7440-22-4	Silver	518	10.0	0.60	ug/L
7440-28-0	Thallium	498	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	**Titanium**	**507**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**581**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**532**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 16:54	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**620000**	**5000**	**1000**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:41	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.728**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:36	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.488**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:58	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1900**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3260**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	**MAO1MW001-MS**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**478**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:23	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0473**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:41	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	50.1	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	49.1	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.2	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	47.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	53.2	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.3	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	49.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.1	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.3	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	43.2	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	51.0	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	50.3	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	48.5	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	47.1	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.0	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.0	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.0	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	39.8	1	0.112	ug/L
78-93-3	2-Butanone	42.2	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.8	1	0.090	ug/L
591-78-6	2-Hexanone	39.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.2	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.3	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	43.4	5	0.142	ug/L
67-64-1	Acetone	32.3	5	0.322	ug/L
71-43-2	Benzene	46.4	1	0.049	ug/L
108-86-1	Bromobenzene	51.1	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	50.7	1	0.071	ug/L
75-25-2	Bromoform	44.1	1	0.278	ug/L
74-83-9	Bromomethane	45.2	1	0.276	ug/L
75-15-0	Carbon disulfide	47.4	1	0.190	ug/L
56-23-5	Carbon tetrachloride	50.4	1	0.056	ug/L
108-90-7	Chlorobenzene	46.7	1	0.055	ug/L
75-00-3	Chloroethane	50.3	1	0.279	ug/L
67-66-3	Chloroform	48.2	1	0.062	ug/L
74-87-3	Chloromethane	52.2	1	0.076	ug/L
74-95-3	Dibromomethane	49.6	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 18:41	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	**Dichlorodifluoromethane**	**49.5**	**1**	**0.088**	**ug/L**
100-41-4	**Ethylbenzene**	**50.4**	**1**	**0.180**	**ug/L**
87-68-3	**Hexachlorobutadiene**	**49.0**	**1**	**0.347**	**ug/L**
98-82-8	**Isopropylbenzene (Cumene)**	**46.2**	**1**	**0.058**	**ug/L**
75-09-2	**Methylene chloride**	**46.4**	**5**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**43.7**	**1**	**0.175**	**ug/L**
100-42-5	**Styrene**	**46.0**	**1**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**49.3**	**1**	**0.141**	**ug/L**
108-88-3	**Toluene**	**52.2**	**1**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**47.4**	**1**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**46.9**	**1**	**0.094**	**ug/L**
75-01-4	**Vinyl chloride**	**48.6**	**1**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.1**	**1**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**45.9**	**1**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**94.0**	**2**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.1**	**1**	**0.068**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.3**	**1**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**47.9**	**1**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**46.4**	**1**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**40.0**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.1**	**1**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**49.0**	**1**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**43.7**	**1**	**0.068**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	48.1	ug/L	96	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 12:40	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	**1,3,5-Trinitrobenzene**	**3.18**	**0.510**	**0.142**	**ug/L**
99-65-0	**1,3-Dinitrobenzene**	**3.44**	**1.02**	**0.257**	**ug/L**
118-96-7	**2,4,6-Trinitrotoluene**	**3.33**	**1.02**	**0.309**	**ug/L**
121-14-2	**2,4-Dinitrotoluene**	**3.28**	**0.510**	**0.128**	**ug/L**
606-20-2	**2,6-Dinitrotoluene**	**3.43**	**0.510**	**0.110**	**ug/L**
355-72-78-2	**2-Amino-4,6-dinitrotoluene**	**3.24**	**0.510**	**0.128**	**ug/L**
88-72-2	**2-Nitrotoluene**	**4.09**	**0.510**	**0.091**	**ug/L**
99-08-1	**3-Nitrotoluene**	**3.46**	**0.510**	**0.109**	**ug/L**
1946-51-0	**4-Amino-2,6-dinitrotoluene**	**3.21**	**0.510**	**0.110**	**ug/L**
99-99-0	**4-Nitrotoluene**	**3.62**	**0.510**	**0.118**	**ug/L**
2691-41-0	**HMX**	**2.71**	**0.204**	**0.036**	**ug/L**
98-95-3	**Nitrobenzene**	**3.39**	**0.510**	**0.139**	**ug/L**
121-82-4	**RDX**	**3.01**	**0.204**	**0.067**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 12:40	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**4.23**	**0.510**	**0.204**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.69	ug/L	83	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:23	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.80**	**0.20**	**0.081**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 13:46	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.80**	**0.20**	**0.081**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:32	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5210**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**508**	**60.0**	**4.03**	**ug/L**
7440-38-2	**Arsenic**	**508**	**10.0**	**2.53**	**ug/L**
7440-41-7	**Beryllium**	**498**	**5.00**	**0.11**	**ug/L**
7440-43-9	**Cadmium**	**484**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**54700**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**485**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**488**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**519**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**5010**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**478**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**52100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**504**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**509**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**487**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**17800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**499**	**40.0**	**4.34**	**ug/L**
7440-22-4	**Silver**	**494**	**10.0**	**0.60**	**ug/L**
7440-28-0	**Thallium**	**470**	**20.0**	**1.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 20:32	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	495	100	1.20	ug/L
7440-62-2	Vanadium	563	20.0	3.75	ug/L
7440-66-6	Zinc	509	20.0	2.72	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	5	05/25/2011 19:49	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	594000	5000	1000	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 15:08	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	515	10.0	0.11	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:06	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4850	200	60.0	ug/L
7440-36-0	Antimony	518	60.0	4.03	ug/L
7440-38-2	Arsenic	518	10.0	2.53	ug/L
7440-39-3	Barium	496	10.0	0.11	ug/L
7440-41-7	Beryllium	495	5.00	0.11	ug/L
7440-43-9	Cadmium	483	5.00	0.20	ug/L
7440-70-2	Calcium	54000	100	50.0	ug/L
7440-47-3	Chromium	474	10.0	1.00	ug/L
7440-48-4	Cobalt	490	10.0	1.00	ug/L
7440-50-8	Copper	509	10.0	1.37	ug/L
7439-89-6	Iron	4870	100	40.0	ug/L
7439-92-1	Lead	478	15.0	1.39	ug/L
7439-95-4	Magnesium	53200	100	50.0	ug/L
7439-96-5	Manganese	488	15.0	2.00	ug/L
7439-98-7	Molybdenum	510	50.0	3.75	ug/L
7440-02-0	Nickel	486	40.0	0.96	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	514	40.0	4.34	ug/L
7440-22-4	Silver	491	10.0	0.60	ug/L
7440-28-0	Thallium	477	20.0	1.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 18:06	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	**Titanium**	**486**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**553**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**506**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	5	05/25/2011 17:01	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**585000**	**5000**	**1000**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:42	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.729**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:37	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.479**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 15:16	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1890**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3230**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	**MAO1MW001-MSD**	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:07	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**495**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:24	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0481**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	**MA01MW001-DUP**	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1970**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**171**	**1.0**	**0.21**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060814	**TB6**	Water	05/09/2011 00:00	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 19:23	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060814	**TB6**	Water	05/09/2011 00:00	05/10/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 19:23	CLH	456069

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	85 - 115
2037-26-5	Toluene d8	50	52.4	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 10:52	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 10:52	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**3.06**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.8	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 13:26	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 13:26	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.8	ug/L	89	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:39	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:03	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:47	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.31B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**269000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**7.48B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**7.48B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**79.9B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**239000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**4.10B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**16.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.7B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**18500**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**31.1B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:47	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**75.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**47.2**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:29	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1960000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 16:41	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**23.7**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**77.6B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**2.74B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**18.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.88B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**280000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.00B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.00B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**21.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**250000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**17.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.1B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**28.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:22	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**73.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**46.8**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:38	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2020000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**8270**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/11/2011 08:34	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.901**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:50	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	**M114MW001**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:33	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3280**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2140**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:27	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:25	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**2.99**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	50.3	ug/L	101	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 14:13	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 14:13	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.86	ug/L	91	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:41	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:05	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:54	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**64.5B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.30B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**276000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**7.87B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**7.87B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**22.8**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**91.3B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**244000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**4.33B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**17.6B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**20.7B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**27.2B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 21:54	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**76.3**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**50.5**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	25	05/25/2011 21:36	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2060000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:01	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**25.3**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:28	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**18.8**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	**Cadmium**	**0.83B**	**5.00**	**0.20**	**ug/L**
7440-70-2	**Calcium**	**278000**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.16B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**5.16B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**20.5**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**248000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**18.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**19.6B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**19400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**26.8B**	**40.0**	**4.34**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:28	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**72.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**46.9**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	25	05/25/2011 18:45	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2040000**	**25000**	**5000**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**8310**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/11/2011 08:40	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.915**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:55	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	**M114MW001-DUP**	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:51	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3250**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**2150**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**82.1**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:29	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:26	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060817	**TB8**	Water	05/10/2011 00:00	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:37	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060817	**TB8**	Water	05/10/2011 00:00	05/11/2011 07:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:37	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	85 - 115
2037-26-5	Toluene d8	50	49.6	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:06	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**17.6**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:06	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50	ug/L	100	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 15:47	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 15:47	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.92	ug/L	93	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:42	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:06	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**38200**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**5.09B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**87.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**176**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**2.30B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**36600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.88B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**7.31B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.29B**	**40.0**	**0.96**	**ug/L**
7440-09-7	**Potassium**	**6610**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**4.44B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:00	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**58.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**22.3**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 20:46	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**308000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:08	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**30.7**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:35	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**23.7**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**36800**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**1.30B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**35000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.26B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**6.27B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6400**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:35	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**56.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**9.80B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 17:56	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**297000**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1110**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:06	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.615**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	**MAOMW004**	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 16:08	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**269**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**352**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**192**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:20	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**7.00B**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0013B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:28	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**7.24**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:28	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	49.7	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 16:34	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.146U	0.526	0.146	ug/L
99-65-0	1,3-Dinitrobenzene	0.265U	1.05	0.265	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.319U	1.05	0.319	ug/L
121-14-2	2,4-Dinitrotoluene	0.132U	0.526	0.132	ug/L
606-20-2	2,6-Dinitrotoluene	0.114U	0.526	0.114	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.132U	0.526	0.132	ug/L
88-72-2	2-Nitrotoluene	0.094U	0.526	0.094	ug/L
99-08-1	3-Nitrotoluene	0.113U	0.526	0.113	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114U	0.526	0.114	ug/L
99-99-0	4-Nitrotoluene	0.122U	0.526	0.122	ug/L
2691-41-0	HMX	0.037U	0.211	0.037	ug/L
98-95-3	Nitrobenzene	0.143U	0.526	0.143	ug/L
121-82-4	RDX	0.069U	0.211	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/11/2011 12:00	455907	SW-846 8330A	1	05/12/2011 16:34	RLY	456236

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.211U	0.526	0.211	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.11	1.72	ug/L	82	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	456158	SW-846 7470A Dissolved	1	05/16/2011 14:44	BNB	456386

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455984	SW-846 7470A	1	05/16/2011 14:08	BNB	456383

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:08	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**111B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**63100**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**4.46B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**44.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**116**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**63400**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**7.94B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.39B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**8970**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/24/2011 22:08	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**68.2**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**13.4B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/25/2011 20:53	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**469000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455827	SW-846 3010A	1	05/27/2011 17:15	CLB	457290

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	**Barium**	**28.8**	**10.0**	**0.11**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:42	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**20.2**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**59600**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.19B**	**10.0**	**1.00**	**ug/L**
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**17.7**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**60300**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.09B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**8430**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/24/2011 19:42	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**65.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**4.16B**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 07:30	455823	SW-846 3005 Dissolved	1	05/25/2011 18:03	CLB	457118

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**458000**	**1000**	**200**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1760**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:07	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.163**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:17	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	**MAOMW003**	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 16:26	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**537**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**616**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**161**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:21	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**18.0**	**10.0**	**2.80**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060820	**TB7**	Water	05/10/2011 00:00	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:50	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060820	**TB7**	Water	05/10/2011 00:00	05/11/2011 08:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 12:50	EDS	456078

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	49.7	ug/L	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:06	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:06	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	**Toluene**	**1.89**	**1**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	85 - 115
2037-26-5	Toluene d8	50	48.8	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 16:55	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 16:55	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	1.95	ug/L	96	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A Dissolved	1	05/20/2011 12:44	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A	1	05/20/2011 12:46	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/20/2011 23:29	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**491000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/24/2011 23:41	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**102**	**60.0**	**4.03**	**ug/L**
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**17.6**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**35100**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**3.05B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**3.05B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/24/2011 23:41	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	**Copper**	**11.0**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**34200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**2.76B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**7.44B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**6860**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.87B**	**40.0**	**4.34**	**ug/L**
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**50.8**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**20.1**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/20/2011 22:01	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**527000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 22:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**164B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**16.5**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**37400**	**100**	**50.0**	**ug/L**
7440-47-3	**Chromium**	**2.09B**	**10.0**	**1.00**	**ug/L**
16065-83-1	**Chromium (III)**	**2.09B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.6**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**36700**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**8.79B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**7280**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 22:29	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**53.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	Zinc	2.72U	20.0	2.72	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1780**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:00	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.325**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:26	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:15	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**473**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**544**	**40.0**	**15.8**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	**MAO1MW002**	Water	05/16/2011 09:35	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**171**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:01	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	06/03/2011 16:15	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:28	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:28	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.6	ug/L	107	75 - 120
1868-53-7	Dibromofluoromethane	50	47.1	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 17:42	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.142U	0.510	0.142	ug/L
99-65-0	1,3-Dinitrobenzene	0.257U	1.02	0.257	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.309U	1.02	0.309	ug/L
121-14-2	2,4-Dinitrotoluene	0.128U	0.510	0.128	ug/L
606-20-2	2,6-Dinitrotoluene	0.110U	0.510	0.110	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.128U	0.510	0.128	ug/L
88-72-2	2-Nitrotoluene	0.091U	0.510	0.091	ug/L
99-08-1	3-Nitrotoluene	0.109U	0.510	0.109	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110U	0.510	0.110	ug/L
99-99-0	4-Nitrotoluene	0.118U	0.510	0.118	ug/L
2691-41-0	HMX	0.036U	0.204	0.036	ug/L
98-95-3	Nitrobenzene	0.139U	0.510	0.139	ug/L
121-82-4	RDX	0.067U	0.204	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 09:00	456405	SW-846 8330A	1	05/20/2011 17:42	RLY	456789

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.204U	0.510	0.204	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.04	2.08	ug/L	102	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A Dissolved	1	05/20/2011 12:43	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456483	SW-846 7470A	1	05/20/2011 12:37	CLB	456775

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.081U	0.20	0.081	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/21/2011 00:07	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**451000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/25/2011 00:17	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	**Arsenic**	**3.23B**	**10.0**	**2.53**	**ug/L**
7440-39-3	**Barium**	**13.3**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**13600**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456553	SW-846 3010A	1	05/25/2011 00:17	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	**Copper**	**4.95B**	**10.0**	**1.37**	**ug/L**
7439-89-6	**Iron**	**43.8B**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**1.92B**	**15.0**	**1.39**	**ug/L**
7439-95-4	**Magnesium**	**9350**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**66.8**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**31.9B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2520**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**16.1B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**24.7**	**20.0**	**2.72**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/20/2011 22:38	CLB	456794

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**489000**	**1000**	**200**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 23:18	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	4.03U	60.0	4.03	ug/L
7440-38-2	Arsenic	2.53U	10.0	2.53	ug/L
7440-39-3	**Barium**	**11.9**	**10.0**	**0.11**	**ug/L**
7440-41-7	Beryllium	0.11U	5.00	0.11	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-70-2	**Calcium**	**14400**	**100**	**50.0**	**ug/L**
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
16065-83-1	Chromium (III)	1.00U	1.00	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.49B**	**10.0**	**1.37**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	1.39U	15.0	1.39	ug/L
7439-95-4	**Magnesium**	**9750**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**70.1**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**34.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.96U	40.0	0.96	ug/L
7440-09-7	**Potassium**	**2680**	**500**	**100**	**ug/L**
7782-49-2	Selenium	4.34U	40.0	4.34	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/18/2011 10:30	456484	SW-846 3005 Dissolved	1	05/24/2011 23:18	CLB	457016

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.60U	10.0	0.60	ug/L
7440-28-0	Thallium	1.75U	20.0	1.75	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**16.5B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**25.0**	**20.0**	**2.72**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1420**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:04	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:30	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:33	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**235**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**423**	**40.0**	**15.8**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	**MWQ23**	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**327**	**1.0**	**0.21**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:02	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170903	TB9	Water	05/16/2011 00:00	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:50	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170903	**TB9**	Water	05/16/2011 00:00	05/17/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 13:50	EDS	456548

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	54	ug/L	108	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	70 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001	**Client ID**	MB456001	LCS456001	LCSD456001
Prep Batch N/A	**GCAL ID**	945623	945624	945625
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	05/09/2011 21:07	05/09/2011 19:27	05/09/2011 19:56
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	3.02J	0.322	50.0	44.0	88	40 - 140	52.2	104	17	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	55.5	111	65 - 130	54.4	109	2	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	54.0	108	75 - 120	52.5	105	3	30
75-25-2	Bromoform	0.278U	0.278	50.0	53.3	107	70 - 130	54.3	109	2	30
74-83-9	Bromomethane	0.276U	0.276	50.0	44.6	89	30 - 145	46.8	94	5	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	58.5	117	35 - 160	51.6	103	13	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	56.8	114	65 - 140	54.0	108	5	30
75-00-3	Chloroethane	0.279U	0.279	50.0	55.0	110	60 - 135	52.1	104	5	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	105	105	75 - 130	99.1	99	6	30
67-66-3	Chloroform	0.062U	0.062	50.0	53.5	107	65 - 135	51.1	102	5	30
74-87-3	Chloromethane	0.076U	0.076	50.0	44.0	88	40 - 125	44.3	89	0.7	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	51.5	103	75 - 125	51.5	103	0	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	59.3	119	30 - 155	55.9	112	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	53.4	107	70 - 135	50.9	102	5	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	52.1	104	70 - 130	51.1	102	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.5	107	70 - 125	51.2	102	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	55.1	110	60 - 140	50.9	102	8	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	49.9	100	55 - 140	47.8	96	4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.4	105	75 - 125	50.9	102	3	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	52.9	106	70 - 130	51.6	103	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	53.8	108	55 - 140	52.1	104	3	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.1	104	75 - 125	49.2	98	6	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	45.1	90	55 - 130	49.5	99	9	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	53.4	107	75 - 125	49.4	99	8	30
78-93-3	2-Butanone	0.235U	0.235	50.0	43.7	87	30 - 150	47.6	95	9	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	47.3	95	60 - 135	48.2	96	2	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	52.2	104	70 - 130	47.9	96	9	30
100-42-5	Styrene	0.058U	0.058	50.0	52.1	104	65 - 135	50.3	101	4	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.7	107	45 - 150	49.9	100	7	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	52.7	105	80 - 130	51.0	102	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	47.4	95	65 - 130	48.8	98	3	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	53.5	107	65 - 135	49.2	98	8	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	55.0	110	65 - 130	52.1	104	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001		**Client ID**	MB456001			LCS456001			LCSD456001		
Prep Batch N/A		**GCAL ID**	945623			945624			945625		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/09/2011 21:07			05/09/2011 19:27			05/09/2011 19:56		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	50.3	101	75 - 125	50.3	101	0	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	57.2	114	60 - 145	54.6	109	5	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.5	93	75 - 125	49.5	99	6	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	52.0	104	75 - 130	48.4	97	7	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.3	105	75 - 130	48.5	97	8	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	54.7	109	50 - 145	51.3	103	6	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.4	105	80 - 120	49.8	100	5	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	48.2	96	50 - 130	49.4	99	2	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	50.6	101	80 - 120	50.8	102	0.4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	51.7	103	65 - 125	50.8	102	2	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	54.7	109	75 - 130	48.7	97	12	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	51.8	104	70 - 135	48.2	96	7	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	54.9	110	75 - 130	51.6	103	6	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	49.4	99	75 - 125	49.2	98	0.4	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	49.3	99	75 - 125	47.5	95	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.1	102	75 - 125	48.0	96	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	50.8	102	75 - 130	47.9	96	6	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	52.8	106	70 - 130	47.6	95	10	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.7	107	70 - 125	47.9	96	11	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	51.8	104	75 - 125	48.2	96	7	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	51.3	103	75 - 125	48.2	96	6	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	55.0	110	70 - 135	48.0	96	14	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.0	102	70 - 120	48.3	97	5	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	57.7	115	50 - 140	48.0	96	18	30
91-20-3	Naphthalene		0.175U	0.175	50.0	50.0	100	55 - 140	50.6	101	1	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	53.0	106	55 - 140	49.3	99	7	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	56.9	114	70 - 130	52.3	105	8	30
71-43-2	Benzene		0.049U	0.049	50.0	52.6	105	80 - 120	50.1	100	5	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	54.4	109	70 - 125	51.4	103	6	30
108-88-3	Toluene		0.078U	0.078	50.0	51.4	103	75 - 120	49.2	98	4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.2	102	80 - 120	49.4	99	4	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.9	102	50	52.5	105	75 - 120	52.3	105		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456001		**Client ID**	MB456001			LCS456001			LCSD456001		
Prep Batch N/A		**GCAL ID**	945623			945624			945625		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/09/2011 21:07			05/09/2011 19:27			05/09/2011 19:56		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		50.5	101	50	51.3	103	85 - 115	51.5	103		
2037-26-5	Toluene d8		50.5	101	50	49.7	99	85 - 120	49.7	99		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	49.9	100	70 - 120	50	100		

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	54.8	110	40 - 140	50.8	102	8	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	53.1	106	65 - 130	50.4	101	5	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	53.7	107	75 - 120	50.2	100	7	30
75-25-2	Bromoform		0.278U	0.278	50.0	47.6	95	70 - 130	45.0	90	6	30
74-83-9	Bromomethane		0.276U	0.276	50.0	46.7	93	30 - 145	44.8	90	4	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	54.7	109	35 - 160	47.2	94	15	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	53.5	107	65 - 140	48.8	98	9	30
75-00-3	Chloroethane		0.279U	0.279	50.0	53.8	108	60 - 135	49.4	99	9	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	101	101	75 - 130	91.2	91	10	30
67-66-3	Chloroform		0.062U	0.062	50.0	51.5	103	65 - 135	48.1	96	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	54.1	108	40 - 125	48.0	96	12	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	52.6	105	75 - 125	50.9	102	3	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	53.9	108	30 - 155	47.7	95	12	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	51.7	103	70 - 135	48.8	98	6	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	50.2	100	70 - 130	48.0	96	4	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	54.9	110	70 - 125	50.4	101	9	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	53.8	108	60 - 140	48.3	97	11	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	49.2	98	55 - 140	45.2	90	8	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	53.8	108	75 - 125	50.8	102	6	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	47.6	95	70 - 130	45.8	92	4	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	46.7	93	55 - 140	44.6	89	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	54.0	108	75 - 125	49.1	98	10	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	50.1	100	55 - 130	48.4	97	3	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	50.4	101	75 - 125	45.0	90	11	30
78-93-3	2-Butanone		0.235U	0.235	50.0	56.8	114	30 - 150	55.0	110	3	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	48.8	98	60 - 135	48.3	97	1	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.3	103	70 - 130	45.8	92	11	30
100-42-5	Styrene		0.058U	0.058	50.0	49.5	99	65 - 135	46.1	92	7	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	53.9	108	45 - 150	47.7	95	12	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	52.9	106	80 - 130	49.1	98	7	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	52.4	105	65 - 130	50.3	101	4	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	50.3	101	65 - 135	46.5	93	8	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	52.1	104	65 - 130	48.3	97	8	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	52.7	105	75 - 125	49.6	99	6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	49.8	100	60 - 145	44.7	89	11	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	53.2	106	75 - 125	50.9	102	4	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	50.5	101	75 - 130	46.6	93	8	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	50.7	101	75 - 130	46.1	92	10	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	51.8	104	50 - 145	46.8	94	10	30
95-47-6	o-Xylene		0.077U	0.077	50.0	50.7	101	80 - 120	46.4	93	9	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	47.9	96	50 - 130	46.3	93	3	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	54.2	108	80 - 120	51.1	102	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	46.6	93	65 - 125	44.4	89	5	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	51.2	102	75 - 130	45.9	92	11	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	44.1	88	70 - 135	41.8	84	5	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	57.1	114	75 - 130	52.1	104	9	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	54.1	108	75 - 125	51.6	103	5	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	53.1	106	75 - 125	51.0	102	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	57.2	114	75 - 125	52.6	105	8	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	50.3	101	75 - 130	46.5	93	8	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	51.8	104	70 - 130	47.1	94	10	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	51.6	103	70 - 125	45.8	92	12	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	53.5	107	75 - 125	49.6	99	8	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	51.0	102	75 - 125	47.0	94	8	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MB456069			LCS456069			LCSD456069		
Prep Batch N/A		**GCAL ID**	945919			945920			945921		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/10/2011 17:15			05/10/2011 16:12			05/10/2011 16:33		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	52.2	104	70 - 135	45.7	91	13	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	53.4	107	70 - 120	50.4	101	6	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	56.5	113	50 - 140	50.7	101	11	30
91-20-3	Naphthalene		0.175U	0.175	50.0	49.0	98	55 - 140	46.9	94	4	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	50.6	101	55 - 140	47.8	96	6	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	51.5	103	70 - 130	46.1	92	11	30
71-43-2	Benzene		0.049U	0.049	50.0	50.0	100	80 - 120	46.3	93	8	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.5	103	70 - 125	47.4	95	8	30
108-88-3	Toluene		0.078U	0.078	50.0	50.8	102	75 - 120	45.9	92	10	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	49.6	99	80 - 120	45.3	91	9	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	50	100	75 - 120	50	100		
1868-53-7	Dibromofluoromethane		49	98	50	50.4	101	85 - 115	50.5	101		
2037-26-5	Toluene d8		52.7	105	50	49.1	98	85 - 120	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	49.8	100	70 - 120	50.1	100		

Analytical Batch 456069		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/10/2011 17:58			05/10/2011 18:19			05/10/2011 18:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	51.3	103	80 - 130	50.1	100	2	30
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	50.5	101	65 - 130	49.1	98	3	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	50.6	101	65 - 130	49.4	99	2	30
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	50.6	101	75 - 125	49.7	99	2	30
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	50.0	100	70 - 135	49.2	98	2	30
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	49.0	98	70 - 130	47.0	94	4	30
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	55.3	111	75 - 130	53.2	106	4	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	45.4	91	55 - 140	45.3	91	0.2	30
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	50.7	101	75 - 125	49.2	98	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch N/A	**GCAL ID**	21105060810	21105060811	21105060812
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/10/2011 17:58	05/10/2011 18:19	05/10/2011 18:41
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	44.7	89	65 - 135	44.1	88	1	30
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	48.3	97	75 - 130	47.3	95	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	43.6	87	50 - 130	43.2	86	0.9	30
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	51.6	103	80 - 120	51.0	102	1	30
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	51.0	102	70 - 120	50.3	101	1	30
107-06-2	1,2-Dichloroethane	0.00	0.121	50.0	49.1	98	70 - 130	48.5	97	1	30
78-87-5	1,2-Dichloropropane	0.00	0.114	50.0	52.4	105	75 - 125	51.4	103	2	30
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	48.2	96	75 - 130	47.1	94	2	30
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	51.6	103	65 - 130	50.0	100	3	30
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	51.9	104	75 - 125	51.0	102	2	30
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	48.8	98	65 - 130	48.0	96	2	30
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	38.4	77	70 - 135	39.8	80	4	30
78-93-3	2-Butanone	0.00	0.235	50.0	44.7	89	30 - 150	42.2	84	6	30
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	55.3	111	75 - 125	53.8	108	3	30
591-78-6	2-Hexanone	0.00	0.302	50.0	39.7	79	55 - 130	39.0	78	2	30
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	48.3	97	75 - 130	47.2	94	2	30
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	48.2	96	75 - 130	46.3	93	4	30
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	44.8	90	60 - 135	43.4	87	3	30
67-64-1	Acetone	0.00	0.322	50.0	31.1	62	40 - 140	32.3	65	4	30
71-43-2	Benzene	0.00	0.049	50.0	48.4	97	80 - 120	46.4	93	4	30
108-86-1	Bromobenzene	0.00	0.095	50.0	51.8	104	75 - 125	51.1	102	1	30
74-97-5	Bromochloromethane	0.00	0.238	50.0	51.2	102	65 - 130	51.2	102	0	30
75-27-4	Bromodichloromethane	0.00	0.071	50.0	52.7	105	75 - 120	50.7	101	4	30
75-25-2	Bromoform	0.00	0.278	50.0	45.4	91	70 - 130	44.1	88	3	30
74-83-9	Bromomethane	0.00	0.276	50.0	43.7	87	30 - 145	45.2	90	3	30
75-15-0	Carbon disulfide	0.00	0.190	50.0	49.6	99	35 - 160	47.4	95	5	30
56-23-5	Carbon tetrachloride	0.00	0.056	50.0	51.6	103	65 - 140	50.4	101	2	30
108-90-7	Chlorobenzene	0.00	0.055	50.0	48.6	97	80 - 120	46.7	93	4	30
75-00-3	Chloroethane	0.00	0.279	50.0	52.3	105	60 - 135	50.3	101	4	30
67-66-3	Chloroform	0.00	0.062	50.0	49.8	100	65 - 135	48.2	96	3	30
74-87-3	Chloromethane	0.00	0.076	50.0	50.6	101	40 - 125	52.2	104	3	30
74-95-3	Dibromomethane	0.00	0.197	50.0	50.0	100	75 - 125	49.6	99	0.8	30
75-71-8	Dichlorodifluoromethane	0.00	0.088	50.0	51.1	102	30 - 155	49.5	99	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456069		**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch N/A		**GCAL ID**	21105060810			21105060811			21105060812		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	05/10/2011 17:58			05/10/2011 18:19			05/10/2011 18:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.00	0.180	50.0	53.1	106	75 - 125	50.4	101	5	30
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	48.8	98	50 - 140	49.0	98	0.4	30
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	48.4	97	75 - 125	46.2	92	5	30
75-09-2	Methylene chloride		0.00	0.102	50.0	47.5	95	55 - 140	46.4	93	2	30
91-20-3	Naphthalene		0.00	0.175	50.0	44.0	88	55 - 140	43.7	87	0.7	30
100-42-5	Styrene		0.00	0.058	50.0	47.7	95	65 - 135	46.0	92	4	30
127-18-4	Tetrachloroethene		0.00	0.141	50.0	51.6	103	45 - 150	49.3	99	5	30
108-88-3	Toluene		6.28	0.078	50.0	54.8	97	75 - 120	52.2	92	5	30
79-01-6	Trichloroethene		0.00	0.094	50.0	49.3	99	70 - 125	47.4	95	4	30
75-69-4	Trichlorofluoromethane		0.00	0.094	50.0	49.4	99	60 - 145	46.9	94	5	30
75-01-4	Vinyl chloride		0.00	0.104	50.0	50.7	101	50 - 145	48.6	97	4	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	52.9	106	70 - 125	51.1	102	3	30
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	45.5	91	70 - 130	45.9	92	0.9	30
136777-61-2	m,p-Xylene		0.00	0.099	100	98.1	98	75 - 130	94.0	94	4	30
104-51-8	n-Butylbenzene		0.00	0.068	50.0	48.1	96	70 - 135	46.1	92	4	30
103-65-1	n-Propylbenzene		0.00	0.069	50.0	48.8	98	70 - 130	47.3	95	3	30
95-47-6	o-Xylene		0.00	0.077	50.0	49.5	99	80 - 120	47.9	96	3	30
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	48.1	96	70 - 125	46.4	93	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.084	50.0	38.7	77	65 - 125	40.0	80	3	30
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	49.2	98	70 - 130	47.1	94	4	30
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	51.4	103	60 - 140	49.0	98	5	30
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	43.6	87	55 - 140	43.7	87	0.2	30
Surrogate												
460-00-4	4-Bromofluorobenzene		48.6	97	50	50.6	101	75 - 120	49.9	100		
1868-53-7	Dibromofluoromethane		49.2	98	50	50.2	100	85 - 115	50.1	100		
2037-26-5	Toluene d8		52.3	105	50	48.8	98	85 - 120	48.1	96		
17060-07-0	1,2-Dichloroethane-d4		50.4	101	50	49.1	98	70 - 120	49	98		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078	**Client ID**	MB456078	LCS456078	LCSD456078
Prep Batch N/A	**GCAL ID**	945968	945969	945970
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	05/11/2011 08:41	05/11/2011 07:12	05/11/2011 07:57
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	61.5	123	40 - 140	60.6	121	1	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	56.5	113	65 - 130	56.1	112	0.7	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	57.1	114	75 - 120	56.8	114	0.5	30
75-25-2	Bromoform	0.278U	0.278	50.0	56.9	114	70 - 130	56.9	114	0	30
74-83-9	Bromomethane	0.276U	0.276	50.0	45.4	91	30 - 145	51.1	102	12	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	57.7	115	35 - 160	56.5	113	2	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	59.1	118	65 - 140	58.1	116	2	30
75-00-3	Chloroethane	0.279U	0.279	50.0	54.1	108	60 - 135	54.9	110	1	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	109	109	75 - 130	105	105	4	30
67-66-3	Chloroform	0.062U	0.062	50.0	56.6	113	65 - 135	56.0	112	1	30
74-87-3	Chloromethane	0.076U	0.076	50.0	47.0	94	40 - 125	49.5	99	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	55.0	110	75 - 125	54.4	109	1	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	51.1	102	30 - 155	50.8	102	0.6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	56.2	112	70 - 135	55.1	110	2	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.2	110	70 - 130	54.0	108	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	56.5	113	70 - 125	55.1	110	3	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	56.8	114	60 - 140	54.9	110	3	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	52.4	105	55 - 140	51.4	103	2	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	57.2	114	75 - 125	55.1	110	4	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	55.4	111	70 - 130	55.3	111	0.2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	57.0	114	55 - 140	56.3	113	1	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	53.6	107	75 - 125	52.5	105	2	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	57.6	115	55 - 130	56.2	112	2	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	55.7	111	75 - 125	53.9	108	3	30
78-93-3	2-Butanone	0.235U	0.235	50.0	54.1	108	30 - 150	54.0	108	0.2	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	52.9	106	60 - 135	54.0	108	2	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	54.8	110	70 - 130	54.9	110	0.2	30
100-42-5	Styrene	0.058U	0.058	50.0	54.4	109	65 - 135	53.5	107	2	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.7	107	45 - 150	52.3	105	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	54.9	110	80 - 130	54.2	108	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	52.7	105	65 - 130	54.4	109	3	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	56.1	112	65 - 135	58.4	117	4	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	56.9	114	65 - 130	55.5	111	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078		**Client ID**	MB456078			LCS456078			LCSD456078		
Prep Batch N/A		**GCAL ID**	945968			945969			945970		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/11/2011 08:41			05/11/2011 07:12			05/11/2011 07:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	52.3	105	75 - 125	51.9	104	0.8	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	55.9	112	60 - 145	54.5	109	3	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	53.3	107	75 - 125	54.4	109	2	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	54.6	109	75 - 130	55.2	110	1	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	54.7	109	75 - 130	54.8	110	0.2	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	55.5	111	50 - 145	53.7	107	3	30
95-47-6	o-Xylene		0.077U	0.077	50.0	53.8	108	80 - 120	52.9	106	2	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	51.4	103	50 - 130	54.5	109	6	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	52.3	105	80 - 120	51.5	103	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	48.6	97	65 - 125	49.1	98	1	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	57.0	114	75 - 130	57.3	115	0.5	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	50.4	101	70 - 135	49.3	99	2	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	57.0	114	75 - 130	55.6	111	2	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	52.3	105	75 - 125	51.6	103	1	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.5	105	75 - 125	53.2	106	1	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	54.0	108	75 - 125	54.5	109	0.9	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	53.6	107	75 - 130	54.1	108	0.9	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	54.9	110	70 - 130	54.8	110	0.2	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	56.0	112	70 - 125	56.1	112	0.2	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	55.0	110	75 - 125	55.5	111	0.9	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	54.1	108	75 - 125	54.9	110	1	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	57.6	115	70 - 135	58.2	116	1	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	54.2	108	70 - 120	55.3	111	2	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	55.0	110	50 - 140	59.6	119	8	30
91-20-3	Naphthalene		0.175U	0.175	50.0	54.2	108	55 - 140	57.5	115	6	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.7	111	55 - 140	58.3	117	5	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	55.5	111	70 - 130	54.6	109	2	30
71-43-2	Benzene		0.049U	0.049	50.0	55.3	111	80 - 120	54.0	108	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	55.9	112	70 - 125	55.0	110	2	30
108-88-3	Toluene		0.078U	0.078	50.0	52.4	105	75 - 120	51.0	102	3	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	52.8	106	80 - 120	51.6	103	2	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	51.1	102	75 - 120	50.3	101		

GC/MS Volatiles Quality Control Summary

Analytical Batch 456078		**Client ID**	MB456078			LCS456078			LCSD456078		
Prep Batch N/A		**GCAL ID**	945968			945969			945970		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/11/2011 08:41			05/11/2011 07:12			05/11/2011 07:57		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		50.3	101	50	51.2	102	85 - 115	51.4	103		
2037-26-5	Toluene d8		50.1	100	50	49.1	98	85 - 120	48.1	96		
17060-07-0	1,2-Dichloroethane-d4		51.1	102	50	51.3	103	70 - 120	50.9	102		

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	48.3	97	40 - 140	46.6	93	4	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	49.4	99	65 - 130	54.5	109	10	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	48.5	97	75 - 120	48.8	98	0.6	30
75-25-2	Bromoform		0.278U	0.278	50.0	51.4	103	70 - 130	55.1	110	7	30
74-83-9	Bromomethane		0.276U	0.276	50.0	45.6	91	30 - 145	48.4	97	6	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	48.1	96	35 - 160	49.0	98	2	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.1	96	65 - 140	52.1	104	8	30
75-00-3	Chloroethane		0.279U	0.279	50.0	45.4	91	60 - 135	47.2	94	4	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	98.5	99	75 - 130	102	102	3	30
67-66-3	Chloroform		0.062U	0.062	50.0	46.7	93	65 - 135	50.1	100	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	44.2	88	40 - 125	46.3	93	5	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	49.9	100	75 - 125	48.2	96	3	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	45.7	91	30 - 155	46.0	92	0.7	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	50.4	101	70 - 135	50.1	100	0.6	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	46.9	94	70 - 130	48.4	97	3	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	46.2	92	70 - 125	49.3	99	6	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	46.9	94	60 - 140	50.8	102	8	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	46.3	93	55 - 140	43.8	88	6	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	49.4	99	75 - 125	47.1	94	5	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	49.3	99	70 - 130	50.5	101	2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	51.5	103	55 - 140	52.8	106	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	47.6	95	75 - 125	50.1	100	5	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	48.0	96	55 - 130	50.0	100	4	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	51.1	102	75 - 125	50.9	102	0.4	30
78-93-3	2-Butanone		0.235U	0.235	50.0	43.8	88	30 - 150	49.1	98	11	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	43.9	88	60 - 135	45.0	90	2	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.8	104	70 - 130	49.0	98	6	30
100-42-5	Styrene		0.058U	0.058	50.0	49.8	100	65 - 135	52.4	105	5	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	48.0	96	45 - 150	51.2	102	6	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	49.4	99	80 - 130	51.9	104	5	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	50.9	102	65 - 130	47.0	94	8	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	45.5	91	65 - 135	52.2	104	14	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	47.4	95	65 - 130	51.1	102	8	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	47.2	94	75 - 125	50.1	100	6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	47.3	95	60 - 145	48.2	96	2	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	55.0	110	75 - 125	51.5	103	7	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	51.8	104	75 - 130	50.7	101	2	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.9	106	75 - 130	50.5	101	5	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	47.4	95	50 - 145	47.5	95	0.2	30
95-47-6	o-Xylene		0.077U	0.077	50.0	48.9	98	80 - 120	51.7	103	6	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	46.0	92	50 - 130	48.3	97	5	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	47.9	96	80 - 120	50.8	102	6	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	55.0	110	65 - 125	60.5	121	10	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	51.0	102	75 - 130	51.9	104	2	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	58.6	117	70 - 135	61.8	124	5	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	47.3	95	75 - 130	53.2	106	12	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	46.8	94	75 - 125	50.1	100	7	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	51.2	102	75 - 125	47.5	95	7	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.6	103	75 - 125	48.4	97	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	52.1	104	75 - 130	48.8	98	7	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	49.0	98	70 - 130	50.8	102	4	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	50.7	101	70 - 125	51.0	102	0.6	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	51.3	103	75 - 125	49.5	99	4	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	47.6	95	75 - 125	49.6	99	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 456548		**Client ID**	MB456548			LCS456548			LCSD456548		
Prep Batch N/A		**GCAL ID**	948132			948133			948134		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	05/18/2011 09:42			05/18/2011 07:11			05/18/2011 07:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	46.7	93	70 - 135	54.1	108	15	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	47.7	95	70 - 120	49.6	99	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	42.8	86	50 - 140	53.5	107	22	30
91-20-3	Naphthalene		0.175U	0.175	50.0	47.3	95	55 - 140	52.5	105	10	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	44.7	89	55 - 140	55.2	110	21	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.3	97	70 - 130	49.4	99	2	30
71-43-2	Benzene		0.049U	0.049	50.0	45.5	91	80 - 120	52.0	104	13	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	52.1	104	70 - 125	52.2	104	0.2	30
108-88-3	Toluene		0.078U	0.078	50.0	46.2	92	75 - 120	48.4	97	5	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.1	94	80 - 120	49.3	99	5	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.5	101	50	57.6	115	75 - 120	52.7	105		
1868-53-7	Dibromofluoromethane		49.5	99	50	47.5	95	85 - 115	50.7	101		
2037-26-5	Toluene d8		52	104	50	48.8	98	85 - 120	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		46.3	93	50	47.9	96	70 - 120	47.5	95		

General Chromatography Quality Control Summary

Analytical Batch	456236	**Client ID**	MB455907	LCS455907	LCSD455907
Prep Batch	455907	**GCAL ID**	945242	945243	945244
Prep Method	SW-846 8330A	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/12/2011 04:50	05/12/2011 05:37	05/12/2011 06:24
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
2691-41-0	HMX	0.018U	0.018	2.00	1.40	**70***	80 - 115	1.50	**75***	7	30
121-82-4	RDX	0.033U	0.033	2.00	1.10	55	50 - 160	1.23	62	11	30
99-35-4	1,3,5-Trinitrobenzene	0.070U	0.070	2.00	1.31	66	65 - 140	1.55	78	17	30
99-65-0	1,3-Dinitrobenzene	0.126U	0.126	2.00	1.38	69	45 - 160	1.62	81	16	30
479-45-8	Tetryl	0.100U	0.100	2.00	1.89	95	20 - 175	2.12	106	11	30
98-95-3	Nitrobenzene	0.068U	0.068	2.00	1.42	71	50 - 140	1.65	83	15	30
118-96-7	2,4,6-Trinitrotoluene	0.152U	0.152	2.00	1.32	66	50 - 145	1.56	78	17	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.054U	0.054	2.00	1.30	65	55 - 155	1.45	73	11	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.063U	0.063	2.00	1.32	66	50 - 155	1.53	77	15	30
121-14-2	2,4-Dinitrotoluene	0.063U	0.063	2.00	1.29	65	60 - 135	1.56	78	19	30
606-20-2	2,6-Dinitrotoluene	0.054U	0.054	2.00	1.39	70	60 - 135	1.70	85	20	30
88-72-2	2-Nitrotoluene	0.045U	0.045	2.00	1.49	75	45 - 135	1.78	89	18	30
99-08-1	3-Nitrotoluene	0.054U	0.054	2.00	1.18	59	50 - 130	1.52	76	25	30
99-99-0	4-Nitrotoluene	0.058U	0.058	2.00	1.31	66	50 - 130	1.56	78	17	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.89	95	2	1.86	93	70 - 130	1.98	99		

Analytical Batch	456236	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455907	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 8330A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/13/2011 03:31	05/12/2011 11:53	05/12/2011 12:40
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
99-35-4	1,3,5-Trinitrobenzene	0.00	0.146	2.22	3.24	**146***	65 - 140	3.18	**156***	2	30
99-65-0	1,3-Dinitrobenzene	0.00	0.265	2.22	3.54	159	45 - 160	3.44	**169***	3	30
118-96-7	2,4,6-Trinitrotoluene	0.00	0.319	2.22	3.45	**155***	50 - 145	3.33	**163***	4	30
121-14-2	2,4-Dinitrotoluene	0.00	0.132	2.22	3.40	**153***	60 - 135	3.28	**161***	4	30
606-20-2	2,6-Dinitrotoluene	0.00	0.114	2.22	3.53	**159***	60 - 135	3.43	**168***	3	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.00	0.132	2.22	3.36	151	50 - 155	3.24	**159***	4	30

General Chromatography Quality Control Summary

Analytical Batch	456236	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455907	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	8330A	**Prep Date**	05/11/2011 12:00	05/11/2011 12:00	05/11/2011 12:00
		Analytical Date	05/13/2011 03:31	05/12/2011 11:53	05/12/2011 12:40
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**			**Control**				
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
88-72-2	2-Nitrotoluene	0.00	0.094	2.22	4.28	**193***	45 - 135	4.09	**200***	5	30
99-08-1	3-Nitrotoluene	0.00	0.113	2.22	3.60	**162***	50 - 130	3.46	**170***	4	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.00	0.114	2.22	3.28	148	55 - 155	3.21	**157***	2	30
99-99-0	4-Nitrotoluene	0.00	0.122	2.22	3.76	**169***	50 - 130	3.62	**177***	4	30
2691-41-0	HMX	0.00	0.037	2.22	2.79	**126***	80 - 115	2.71	**133***	3	30
98-95-3	Nitrobenzene	0.00	0.143	2.22	3.60	**162***	50 - 140	3.39	**166***	6	30
121-82-4	RDX	0.00	0.069	2.22	2.88	130	50 - 160	3.01	147	4	30
479-45-8	Tetryl	0.00	0.211	2.22	4.11	**185***	20 - 175	4.23	**207***	3	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.94	92	2.22	1.79	81	70 - 130	1.69	83		

Analytical Batch	456789	**Client ID**	MB456405	LCS456405	LCSD456405
Prep Batch	456405	**GCAL ID**	947522	947523	947524
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	8330A	**Prep Date**	05/18/2011 09:00	05/18/2011 09:00	05/18/2011 09:00
		Analytical Date	05/20/2011 13:01	05/20/2011 13:48	05/20/2011 14:35
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**			**Control**				
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
2691-41-0	HMX	0.018U	0.018	2.00	1.54	**77***	80 - 115	1.50	**75***	3	30
121-82-4	RDX	0.033U	0.033	2.00	1.34	67	50 - 160	1.29	65	4	30
99-35-4	1,3,5-Trinitrobenzene	0.070U	0.070	2.00	1.66	83	65 - 140	1.63	82	2	30
99-65-0	1,3-Dinitrobenzene	0.126U	0.126	2.00	1.76	88	45 - 160	1.70	85	3	30
479-45-8	Tetryl	0.100U	0.100	2.00	2.30	115	20 - 175	2.29	115	0.4	30
98-95-3	Nitrobenzene	0.068U	0.068	2.00	1.71	86	50 - 140	1.66	83	3	30
118-96-7	2,4,6-Trinitrotoluene	0.152U	0.152	2.00	1.62	81	50 - 145	1.57	79	3	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.054U	0.054	2.00	1.59	80	55 - 155	1.51	76	5	30
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.063U	0.063	2.00	1.57	79	50 - 155	1.56	78	0.6	30
121-14-2	2,4-Dinitrotoluene	0.063U	0.063	2.00	1.71	86	60 - 135	1.60	80	7	30
606-20-2	2,6-Dinitrotoluene	0.054U	0.054	2.00	1.90	95	60 - 135	1.76	88	8	30
88-72-2	2-Nitrotoluene	0.045U	0.045	2.00	2.01	101	45 - 135	1.99	100	1	30

General Chromatography Quality Control Summary

Analytical Batch	456789	**Client ID**	MB456405	LCS456405	LCSD456405
Prep Batch	456405	**GCAL ID**	947522	947523	947524
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	8330A	**Prep Date**	05/18/2011 09:00	05/18/2011 09:00	05/18/2011 09:00
		Analytical Date	05/20/2011 13:01	05/20/2011 13:48	05/20/2011 14:35
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
99-08-1	3-Nitrotoluene	0.054U	0.054	2.00	1.69	85	50 - 130	1.64	82	3	30
99-99-0	4-Nitrotoluene	0.058U	0.058	2.00	1.77	89	50 - 130	1.74	87	2	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	2.19	110	2	2.24	112	70 - 130	2.18	109		

Inorganics Quality Control Summary

Analytical Batch	456386	**Client ID**	MB456158		LCS456158		
Prep Batch	456158	**GCAL ID**	946277		946278		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 14:17		05/16/2011 14:19		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.99	100	80 - 120

Analytical Batch	456386	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD				
Prep Batch	456158	**GCAL ID**	21105060810		21105060811			21105060812				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30				
	Dissolved	**Analytical Date**	05/16/2011 14:20		05/16/2011 14:22			05/16/2011 14:23				
		Matrix	Water		Water			Water				
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.081	5.00	4.66	93	80 - 120	4.80	96	3	30	

Analytical Batch	456775	**Client ID**	MB456483		LCS456483							
Prep Batch	456483	**GCAL ID**	947877		947878							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	05/18/2011 10:30		05/18/2011 10:30							
		Analytical Date	05/20/2011 12:33		05/20/2011 12:35							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.081U	0.081	5.00	4.29	86	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	456775	**Client ID**	MWQ23			947763MS			947763MSD			
Prep Batch	456483	**GCAL ID**	21105170902			947879			947880			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30			
		Analytical Date	05/20/2011 12:37			05/20/2011 12:38			05/20/2011 12:40			
		Matrix	Water			Water			Water			
SW-846 7470A		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.081		5.00	4.49	90	75 - 125	4.46	89	0.6	30

Inorganics Quality Control Summary

Analytical Batch	456383	**Client ID**	MB455984		LCS455984		
Prep Batch	455984	**GCAL ID**	945531		945532		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30		
		Analytical Date	05/16/2011 13:39		05/16/2011 13:41		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.89	98	80 - 120

Analytical Batch	456383	**Client ID**	MAO1MW001		MAO1MW001-MS			MAO1MW001-MSD				
Prep Batch	455984	**GCAL ID**	21105060810		21105060811			21105060812				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	05/12/2011 07:30		05/12/2011 07:30			05/12/2011 07:30				
		Analytical Date	05/16/2011 13:43		05/16/2011 13:44			05/16/2011 13:46				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.00000	0.081	5.00	4.78	96	80 - 120	4.80	96	0.3		30

Analytical Batch	456775	**Client ID**	MB456483		LCS456483		
Prep Batch	456483	**GCAL ID**	947877		947878		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	05/18/2011 10:30		05/18/2011 10:30		
		Analytical Date	05/20/2011 12:33		05/20/2011 12:35		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.081U	0.081	5.00	4.29	86	80 - 120

Inorganics Quality Control Summary

Analytical Batch	456775	**Client ID**	MWQ23			947763MS			947763MSD			
Prep Batch	456483	**GCAL ID**	21105170902			947879			947880			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30			
		Analytical Date	05/20/2011 12:37			05/20/2011 12:38			05/20/2011 12:40			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.081	5.00	4.49	90	80 - 120	4.46	89	0.6	30

Inorganics Quality Control Summary

Analytical Batch	456794	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456553	**GCAL ID**	21105170901			948159			948160		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/20/2011 23:29			05/20/2011 23:36			05/20/2011 23:44		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium		491000	200	20000	531000	**200***	80 - 120	532000	**206***	0.2	30

Analytical Batch	457016	**Client ID**	MB455827			LCS455827		
Prep Batch	455827	**GCAL ID**	944933			944934		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/24/2011 19:49			05/24/2011 19:57		
		Matrix	Water			Water		
SW-846 6010C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4700	94	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	463	93	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	455	91	80 - 120
7440-39-3	Barium		1.87J	0.11	500	479	96	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	466	93	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	466	93	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4640	93	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	473	95	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	468	94	80 - 120
7440-50-8	Copper		1.37U	1.37	500	471	94	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	4610	92	80 - 120
7439-92-1	Lead		1.39U	1.39	500	467	93	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	4590	92	80 - 120
7439-96-5	Manganese		3.24J	2.00	500	474	95	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	474	95	80 - 120
7440-02-0	Nickel		0.96U	0.96	500	477	95	80 - 120
7440-09-7	Potassium		100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium		4.34U	4.34	500	464	93	80 - 120
7440-22-4	Silver		0.60U	0.60	500	470	94	80 - 120
7440-23-5	Sodium		200U	200	20000	18100	91	80 - 120
7440-28-0	Thallium		1.75U	1.75	500	466	93	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455827	LCS455827
Prep Batch	455827	**GCAL ID**	944933	944934
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 19:49	05/24/2011 19:57
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	468	94	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	467	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	479	96	80 - 120

Analytical Batch	457016	**Client ID**	MB456553	LCS456553
Prep Batch	456553	**GCAL ID**	948157	948158
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:26	05/24/2011 23:34
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4870	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	472	94	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	464	93	80 - 120
7440-39-3	Barium	4.09J	0.11	500	477	95	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	473	95	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	468	94	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4740	95	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	478	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	478	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	481	96	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4800	96	80 - 120
7439-92-1	Lead	1.39U	1.39	500	477	95	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4750	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	477	95	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	482	96	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	481	96	80 - 120
7440-09-7	Potassium	100U	100	10000	10000	100	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	478	96	80 - 120
7440-22-4	Silver	0.60U	0.60	500	481	96	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456553	LCS456553
Prep Batch	456553	**GCAL ID**	948157	948158
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:26	05/24/2011 23:34
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	509J	200	20000	20400	102	80 - 120
7440-28-0	Thallium	2.07J	1.75	500	474	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	473	95	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	471	94	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	276	60.0	5000	5230	99	80 - 120	5210	99	0.5	30
7440-36-0	Antimony	0.0	4.03	500	515	103	80 - 120	508	102	1	30
7440-38-2	Arsenic	0.0	2.53	500	517	103	80 - 120	508	102	2	30
7440-41-7	Beryllium	0.0	0.11	500	496	99	80 - 120	498	100	0.3	30
7440-43-9	Cadmium	0.0	0.20	500	483	97	80 - 120	484	97	0.03	30
7440-70-2	Calcium	49700	50.0	5000	54200	90	80 - 120	54700	100	0.9	30
7440-47-3	Chromium	8.54	1.00	500	483	95	80 - 120	485	95	0.5	30
7440-48-4	Cobalt	0.0	1.00	500	496	99	80 - 120	488	98	2	30
7440-50-8	Copper	14.3	1.37	500	517	101	80 - 120	519	101	0.3	30
7439-89-6	Iron	204	40.0	5000	5090	98	80 - 120	5010	96	2	30
7439-92-1	Lead	0.0	1.39	500	484	97	80 - 120	478	96	1	30
7439-95-4	Magnesium	48700	50.0	5000	53100	87	80 - 120	52100	**68***	2	30
7439-96-5	Manganese	12.6	2.00	500	503	98	80 - 120	504	98	0.2	30
7439-98-7	Molybdenum	4.94	3.75	500	513	102	80 - 120	509	101	0.7	30
7440-02-0	Nickel	2.96	0.96	500	494	98	80 - 120	487	97	1	30
7440-09-7	Potassium	7780	100	10000	18000	102	80 - 120	17800	100	1	30
7782-49-2	Selenium	0.0	4.34	500	511	102	80 - 120	499	100	2	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455827	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 20:04	05/24/2011 20:25	05/24/2011 20:32
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-22-4	Silver	0.0	0.60	500	492	98	80 - 120	494	99	0.4	30
7440-28-0	Thallium	0.0	1.75	500	478	96	80 - 120	470	94	2	30
7440-32-6	Titanium	3.16	1.20	500	491	97	80 - 120	495	98	0.9	30
7440-62-2	Vanadium	61.1	3.75	500	562	100	80 - 120	563	100	0.3	30
7440-66-6	Zinc	2.74	2.72	500	507	101	80 - 120	509	101	0.5	30

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456553	**GCAL ID**	21105170901	948159	948160
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 23:41	05/24/2011 23:49	05/24/2011 23:55
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	54.9	60.0	5000	4880	97	80 - 120	4760	94	3	30
7440-36-0	Antimony	102	4.03	500	508	81	80 - 120	504	80	0.8	30
7440-38-2	Arsenic	0.0	2.53	500	507	101	80 - 120	498	100	2	30
7440-39-3	Barium	17.6	0.11	500	501	97	80 - 120	496	96	1	30
7440-41-7	Beryllium	0.0	0.11	500	497	99	80 - 120	493	99	0.8	30
7440-43-9	Cadmium	0.0	0.20	500	484	97	80 - 120	477	95	1	30
7440-70-2	Calcium	35100	50.0	5000	41900	**135***	80 - 120	41200	**122***	2	30
7440-47-3	Chromium	3.05	1.00	500	479	95	80 - 120	474	94	1	30
7440-48-4	Cobalt	0.0	1.00	500	492	98	80 - 120	484	97	2	30
7440-50-8	Copper	11.0	1.37	500	518	101	80 - 120	515	101	0.5	30
7439-89-6	Iron	0.0	40.0	5000	4880	98	80 - 120	4750	95	3	30
7439-92-1	Lead	0.0	1.39	500	483	97	80 - 120	470	94	3	30
7439-95-4	Magnesium	34200	50.0	5000	41000	**137***	80 - 120	39400	106	4	30
7439-96-5	Manganese	2.76	2.00	500	493	98	80 - 120	488	97	1	30
7439-98-7	Molybdenum	7.44	3.75	500	514	101	80 - 120	506	100	2	30
7440-02-0	Nickel	0.0	0.96	500	489	98	80 - 120	488	98	0.2	30
7440-09-7	Potassium	6860	100	10000	17600	107	80 - 120	17200	103	3	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456553	**GCAL ID**	21105170901			948159			948160		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/24/2011 23:41			05/24/2011 23:49			05/24/2011 23:55		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7782-49-2	Selenium	5.87	4.34		500	505	100	80 - 120	496	98	2	30
7440-22-4	Silver	0.0	0.60		500	492	98	80 - 120	488	98	0.7	30
7440-28-0	Thallium	0.0	1.75		500	472	94	80 - 120	472	94	0.008	30
7440-62-2	Vanadium	50.8	3.75		500	552	100	80 - 120	548	99	0.7	30
7440-66-6	Zinc	20.1	2.72		500	509	98	80 - 120	502	96	1	30
7440-32-6	Titanium	0.0	1.20		500	491	98	80 - 120	491	98	0.06	30

Analytical Batch	457118	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/25/2011 19:35			05/25/2011 19:42			05/25/2011 19:49		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	567000	1000		20000	594000	**132***	80 - 120	594000	**131***	0.05	30

Analytical Batch	457290	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD		
Prep Batch	455827	**GCAL ID**	21105060810			21105060811			21105060812		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/27/2011 14:54			05/27/2011 15:01			05/27/2011 15:08		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-39-3	Barium	27.8	0.11		500	513	97	80 - 120	515	97	0.5	30

Inorganics Quality Control Summary

Analytical Batch	456794	**Client ID**	MAO1MW002			947762MS			947762MSD		
Prep Batch	456484	**GCAL ID**	21105170901			947883			947884		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	05/18/2011 10:30			05/18/2011 10:30			05/18/2011 10:30		
		Analytical Date	05/20/2011 22:01			05/20/2011 22:09			05/20/2011 22:16		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		527000	200	20000	520000	**-40***	80 - 120	542000	**74***	4	20

Analytical Batch	457016	**Client ID**	MB455823			LCS455823		
Prep Batch	455823	**GCAL ID**	944905			944906		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	05/12/2011 07:30			05/12/2011 07:30		
		Analytical Date	05/24/2011 17:39			05/24/2011 17:46		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	5030	101	80 - 120
7440-36-0	Antimony		4.03U	4.03	500	493	99	80 - 120
7440-38-2	Arsenic		2.53U	2.53	500	496	99	80 - 120
7440-39-3	Barium		3.16J	0.11	500	499	100	80 - 120
7440-41-7	Beryllium		0.11U	0.11	500	498	100	80 - 120
7440-43-9	Cadmium		0.45J	0.20	500	500	100	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	4990	100	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	495	99	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper		1.37U	1.37	500	494	99	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	4970	99	80 - 120
7439-92-1	Lead		1.39U	1.39	500	497	99	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	4970	99	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	498	100	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	491	98	80 - 120
7440-02-0	Nickel		0.96U	0.96	500	497	99	80 - 120
7440-09-7	Potassium		100U	100	10000	10100	101	80 - 120
7782-49-2	Selenium		4.34U	4.34	500	503	101	80 - 120
7440-22-4	Silver		0.60U	0.60	500	502	100	80 - 120
7440-23-5	Sodium		200U	200	20000	19000	95	80 - 120
7440-28-0	Thallium		1.75U	1.75	500	493	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB455823	LCS455823
Prep Batch	455823	**GCAL ID**	944905	944906
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:39	05/24/2011 17:46
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	491	98	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	507	101	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	496	99	80 - 120

Analytical Batch	457016	**Client ID**	MB456484	LCS456484
Prep Batch	456484	**GCAL ID**	947881	947882
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:15	05/24/2011 22:23
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4850	97	80 - 120
7440-36-0	Antimony	4.03U	4.03	500	473	95	80 - 120
7440-38-2	Arsenic	2.53U	2.53	500	470	94	80 - 120
7440-39-3	Barium	1.53J	0.11	500	480	96	80 - 120
7440-41-7	Beryllium	0.11U	0.11	500	483	97	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	480	96	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4720	94	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	482	96	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	479	96	80 - 120
7440-50-8	Copper	1.37U	1.37	500	483	97	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4760	95	80 - 120
7439-92-1	Lead	1.39U	1.39	500	478	96	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4730	95	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	482	96	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	475	95	80 - 120
7440-02-0	Nickel	0.96U	0.96	500	489	98	80 - 120
7440-09-7	Potassium	100U	100	10000	10000	100	80 - 120
7782-49-2	Selenium	4.34U	4.34	500	490	98	80 - 120
7440-22-4	Silver	0.60U	0.60	500	487	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MB456484	LCS456484
Prep Batch	456484	**GCAL ID**	947881	947882
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:15	05/24/2011 22:23
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-23-5	Sodium	889J	200	20000	20800	104	80 - 120
7440-28-0	Thallium	1.75U	1.75	500	475	95	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	478	96	80 - 120
7440-66-6	Zinc	2.72U	2.72	500	485	97	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	105	60.0	5000	5040	99	80 - 120	4850	95	4	30
7440-36-0	Antimony	0.0	4.03	500	535	107	80 - 120	518	104	3	30
7440-38-2	Arsenic	0.0	2.53	500	552	110	80 - 120	518	104	6	30
7440-39-3	Barium	18.0	0.11	500	524	101	80 - 120	496	96	5	30
7440-41-7	Beryllium	0.0	0.11	500	522	104	80 - 120	495	99	5	30
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	483	97	6	30
7440-70-2	Calcium	50800	50.0	5000	56100	105	80 - 120	54000	**64***	4	30
7440-47-3	Chromium	2.24	1.00	500	498	99	80 - 120	474	94	5	30
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	490	98	4	30
7440-50-8	Copper	13.4	1.37	500	535	104	80 - 120	509	99	5	30
7439-89-6	Iron	46.6	40.0	5000	5030	100	80 - 120	4870	96	3	30
7439-92-1	Lead	0.0	1.39	500	501	100	80 - 120	478	96	5	30
7439-95-4	Magnesium	50100	50.0	5000	54200	82	80 - 120	53200	**63***	2	30
7439-96-5	Manganese	2.16	2.00	500	515	103	80 - 120	488	97	5	30
7439-98-7	Molybdenum	5.66	3.75	500	526	104	80 - 120	510	101	3	30
7440-02-0	Nickel	0.0	0.96	500	507	101	80 - 120	486	97	4	30
7440-09-7	Potassium	7880	100	10000	18200	104	80 - 120	17800	99	2	30

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/24/2011 17:53	05/24/2011 18:00	05/24/2011 18:06
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7782-49-2	Selenium	0.0	4.34	500	540	108	80 - 120	514	103	5	30
7440-22-4	Silver	0.0	0.60	500	518	104	80 - 120	491	98	5	30
7440-28-0	Thallium	0.0	1.75	500	498	100	80 - 120	477	95	4	30
7440-32-6	Titanium	1.53	1.20	500	507	101	80 - 120	486	97	4	30
7440-62-2	Vanadium	58.3	3.75	500	581	105	80 - 120	553	99	5	30
7440-66-6	Zinc	0.0	2.72	500	532	106	80 - 120	506	101	5	30

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456484	**GCAL ID**	21105170901	947883	947884
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:29	05/24/2011 22:37	05/24/2011 22:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	164	60.0	5000	4930	95	80 - 120	5140	100	4	20
7440-36-0	Antimony	0.0	4.03	500	505	101	80 - 120	520	104	3	20
7440-38-2	Arsenic	0.0	2.53	500	515	103	80 - 120	522	104	1	20
7440-39-3	Barium	16.5	0.11	500	497	96	80 - 120	513	99	3	20
7440-41-7	Beryllium	0.0	0.11	500	498	100	80 - 120	515	103	3	20
7440-43-9	Cadmium	0.0	0.20	500	484	97	80 - 120	499	100	3	20
7440-70-2	Calcium	37400	50.0	5000	40800	**68***	80 - 120	42600	103	4	20
7440-47-3	Chromium	2.09	1.00	500	477	95	80 - 120	492	98	3	20
7440-48-4	Cobalt	0.0	1.00	500	491	98	80 - 120	502	100	2	20
7440-50-8	Copper	11.6	1.37	500	519	101	80 - 120	533	104	3	20
7439-89-6	Iron	0.0	40.0	5000	4800	96	80 - 120	5020	100	5	20
7439-92-1	Lead	0.0	1.39	500	480	96	80 - 120	490	98	2	20
7439-95-4	Magnesium	36700	50.0	5000	39500	**57***	80 - 120	41700	100	5	20
7439-96-5	Manganese	0.0	2.00	500	490	98	80 - 120	506	101	3	20
7439-98-7	Molybdenum	8.79	3.75	500	505	99	80 - 120	517	102	2	20
7440-02-0	Nickel	0.0	0.96	500	489	98	80 - 120	498	100	2	20

Inorganics Quality Control Summary

Analytical Batch	457016	**Client ID**	MAO1MW002	947762MS	947762MSD
Prep Batch	456484	**GCAL ID**	21105170901	947883	947884
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/18/2011 10:30	05/18/2011 10:30	05/18/2011 10:30
		Analytical Date	05/24/2011 22:29	05/24/2011 22:37	05/24/2011 22:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-09-7	Potassium	7280	100	10000	17200	99	80 - 120	18200	109	6	20
7782-49-2	Selenium	0.0	4.34	500	512	102	80 - 120	522	104	2	20
7440-22-4	Silver	0.0	0.60	500	495	99	80 - 120	514	103	4	20
7440-28-0	Thallium	0.0	1.75	500	475	95	80 - 120	486	97	2	20
7440-62-2	Vanadium	53.4	3.75	500	551	100	80 - 120	566	103	3	20
7440-66-6	Zinc	0.0	2.72	500	510	102	80 - 120	526	105	3	20
7440-32-6	Titanium	0.0	1.20	500	485	97	80 - 120	500	100	3	20

Analytical Batch	457118	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455823	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	05/12/2011 07:30	05/12/2011 07:30	05/12/2011 07:30
		Analytical Date	05/25/2011 16:46	05/25/2011 16:54	05/25/2011 17:01
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7440-23-5	Sodium	588000	1000	20000	620000	**158***	80 - 120	585000	**-20***	6	30

General Chemistry Quality Control Summary

Analytical Batch 455813	**Client ID**	MB455813			LCS455813		
Prep Batch N/A	**GCAL ID**	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	**Client ID**	MW-10		944726DUP		
Prep Batch N/A	**GCAL ID**	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1480	10.0	1480	0.41	5

Analytical Batch 455925	**Client ID**	MB455925			LCS455925		
Prep Batch N/A	**GCAL ID**	945345			945346		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/09/2011 10:15			05/09/2011 10:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1040	104	80 - 120

Analytical Batch 455925	**Client ID**	U43010B		945308DUP		
Prep Batch N/A	**GCAL ID**	21105091101		945347		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 10:15		05/09/2011 10:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3360	10.0	3360	0	5

General Chemistry Quality Control Summary

Analytical Batch 455925	**Client ID**	PZP12		PZP12 DUP		
Prep Batch N/A	**GCAL ID**	21105094605		21105094611		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 18:45		05/09/2011 18:45		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035 Total Dissolved Solids(TDS)		762	10.0	736	3.5	5

Analytical Batch 456092	**Client ID**	MB456092			LCS456092		
Prep Batch N/A	**GCAL ID**	946016			946017		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 15:15			05/11/2011 15:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	950	95	80 - 120

Analytical Batch 456092	**Client ID**	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	**GCAL ID**	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/11/2011 15:15		05/11/2011 15:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035 Total Dissolved Solids(TDS)		1980	10.0	1970	0.51	5

Analytical Batch 456522	**Client ID**	MB456522			LCS456522		
Prep Batch N/A	**GCAL ID**	948025			948026		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 15:20			05/17/2011 15:20		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1040	104	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456522	**Client ID**	U43010B		947808DUP		
Prep Batch N/A	**GCAL ID**	21105171503		948027		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/17/2011 15:20		05/17/2011 15:20		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3530	10.0	3470	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 455837	**Client ID**	MB455837			LCS455837		
Prep Batch N/A	**GCAL ID**	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.498	100	89.5 -110.5

Analytical Batch 455837	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

Analytical Batch 455838	**Client ID**	MB455838			LCS455838		
Prep Batch N/A	**GCAL ID**	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	ND	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 455838	**Client ID**	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	**GCAL ID**	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

General Chemistry Quality Control Summary

Analytical Batch 455918	**Client ID**	MB455918			LCS455918		
Prep Batch N/A	**GCAL ID**	945319			945320		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 10:31			05/07/2011 10:33		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.539	108	89.5 -110.5

Analytical Batch 455918	**Client ID**	M114MW002			945264MS			945264MSD			
Prep Batch N/A	**GCAL ID**	21105060805			945321			945322			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 10:35			05/07/2011 10:36			05/07/2011 10:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.375	0.003	0.500	0.839	93	89.5 -110.5	0.838	93	0.1	25

Analytical Batch 455919	**Client ID**	MB455919			LCS455919		
Prep Batch N/A	**GCAL ID**	945323			945324		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 11:10			05/07/2011 11:13		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0 Nitrite		0.003U	0.003	0.500	0.503	101	89.5 -110.5

Analytical Batch 455919	**Client ID**	M114MW002			945264MS			945264MSD			
Prep Batch N/A	**GCAL ID**	21105060805			945325			945326			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 11:14			05/07/2011 11:15			05/07/2011 11:16			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0 Nitrite		0.004	0.003	0.500	0.468	93	89.5 -110.5	0.468	93	0.02	25

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Analytical Batch 456027	**Client ID**	MB456027			LCS456027		
Prep Batch N/A	**GCAL ID**	945750			945751		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 13:25			05/10/2011 13:27		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.488	98	89.5 -110.5

Analytical Batch 456027	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 13:37			05/10/2011 13:41			05/10/2011 13:42			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.233	0.003	0.500	0.728	99	89.5 -110.5	0.729	99	0.1	25

Analytical Batch 456033	**Client ID**	MB456033			LCS456033		
Prep Batch N/A	**GCAL ID**	945765			945766		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 14:22			05/10/2011 14:23		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.004J	0.003	0.500	0.506	101	89.5 -110.5

Analytical Batch 456033	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 14:32			05/10/2011 14:36			05/10/2011 14:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.004	0.003	0.500	0.488	97	89.5 -110.5	0.479	95	2	25

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Analytical Batch 456084	**Client ID**	MB456084			LCS456084		
Prep Batch N/A	**GCAL ID**	945983			945984		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:25			05/11/2011 08:26		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.473	95	89.5 -110.5

Analytical Batch 456084	**Client ID**	M114MW001			945961MS			945961MSD			
Prep Batch N/A	**GCAL ID**	21105060815			945985			945986			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:34			05/11/2011 08:35			05/11/2011 08:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.901	0.013	2.50	3.21	93	89.5 -110.5	3.19	92	0.6	25

Analytical Batch 456085	**Client ID**	MB456085			LCS456085		
Prep Batch N/A	**GCAL ID**	945987			945988		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:48			05/11/2011 08:49		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.511	102	89.5 -110.5

Analytical Batch 456085	**Client ID**	M114MW001			945961MS			945961MSD			
Prep Batch N/A	**GCAL ID**	21105060815			945989			945990			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:50			05/11/2011 08:52			05/11/2011 08:53			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.486	97	89.5 -110.5	0.491	98	0.9	25

General Chemistry Quality Control Summary

Analytical Batch 456516	**Client ID**	MB456516			LCS456516		
Prep Batch N/A	**GCAL ID**	948012			948013		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 15:56			05/17/2011 15:57		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.543	108	89.5 -110.5

Analytical Batch 456516	**Client ID**	MAO1MW002			947762MS			947762MSD			
Prep Batch N/A	**GCAL ID**	21105170901			948014			948015			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/17/2011 16:00			05/17/2011 16:01			05/17/2011 16:02			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.325	0.003	0.500	0.775	90	89.5 -110.5	0.776	90	0.1	25

Analytical Batch 456519	**Client ID**	MB456519			LCS456519		
Prep Batch N/A	**GCAL ID**	948018			948019		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 16:24			05/17/2011 16:25		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.477	95	89.5 -110.5

Analytical Batch 456519	**Client ID**	MAO1MW002			947762MS			947762MSD			
Prep Batch N/A	**GCAL ID**	21105170901			948020			948021			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/17/2011 16:26			05/17/2011 16:27			05/17/2011 16:29			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.479	96	89.5 -110.5	0.480	96	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456165	**Client ID**	MB456165			LCS456165		
Prep Batch N/A	**GCAL ID**	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.05	101	82 - 110

Analytical Batch 456165	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate	704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch 456165	**Client ID**	MAO2MW001D			944806MS			944806MSD			
Prep Batch N/A	**GCAL ID**	21105060801			946301			946302			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 12:02			05/12/2011 12:20			05/12/2011 12:37			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	2190	21.0	2500	4680	99.5	79 - 109	4640	97.8	0.89	15
14808-79-8	Sulfate	2130	79.0	5000	7220	102	82 - 110	7280	103	0.81	15

General Chemistry Quality Control Summary

Analytical Batch 456669	**Client ID**	MB456669			LCS456669		
Prep Batch N/A	**GCAL ID**	948789			948790		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 17:40			05/19/2011 17:58		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.4	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.91	98.3	82 - 110

Analytical Batch 456669	**Client ID**	E16A			946542MS			946542MSD			
Prep Batch N/A	**GCAL ID**	21105122833			948791			948792			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 18:15			05/19/2011 18:33			05/19/2011 18:51			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate	76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669	**Client ID**	MWL6			948703MS			948703MSD			
Prep Batch N/A	**GCAL ID**	21105190401			948793			948794			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/20/2011 01:01			05/20/2011 01:18			05/20/2011 01:36			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate	216	3.95	250	470	102	82 - 110	468	101	0.49	15

General Chemistry Quality Control Summary

Analytical Batch 455965	**Client ID**	LCS455965			
Prep Batch N/A	**GCAL ID**	945466			
	Sample Type	LCS			
	Analytical Date	05/09/2011 11:15			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	206	103	80 - 120

Analytical Batch 455965	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945467		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 11:15		05/09/2011 11:15		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		69.2	0.21	70.4	2	11

Analytical Batch 455971	**Client ID**	LCS455971				LCSD455971			
Prep Batch N/A	**GCAL ID**	945486				945487			
	Sample Type	LCS				LCSD			
	Analytical Date	05/09/2011 12:38				05/09/2011 12:38			
	Matrix	Water				Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	9.3	93	80 - 120	9.3	93	0.1	11

Analytical Batch 456175	**Client ID**	LCS456175			
Prep Batch N/A	**GCAL ID**	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456175	**Client ID**	MAO1MW001	MA01MW001-DUP
Prep Batch N/A	**GCAL ID**	21105060810	21105060813
	Sample Type	SAMPLE	DUP
	Analytical Date	05/12/2011 09:24	05/12/2011 09:24
	Matrix	Water	Water

SM 2320B Alkalinity	**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
	Result	**RDL**			
000000-00-5 Total Alkalinity	169	0.21	171	0.8	11

Analytical Batch 456595	**Client ID**	LCS456595
Prep Batch N/A	**GCAL ID**	948433
	Sample Type	LCS
	Analytical Date	05/18/2011 14:07
	Matrix	Water

SM 2320B Alkalinity	**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity	200	200	100	80 - 120

Analytical Batch 456595	**Client ID**	TK-471	948229DUP
Prep Batch N/A	**GCAL ID**	21105181102	948434
	Sample Type	SAMPLE	DUP
	Analytical Date	05/18/2011 14:07	05/18/2011 14:07
	Matrix	Water	Water

SM 2320B Alkalinity	**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
	Result	**RDL**			
000000-00-5 Total Alkalinity	308	0.21	309	0.3	11

General Chemistry Quality Control Summary

Analytical Batch 455820	**Client ID**	MB455820			LCS455820		
Prep Batch N/A	**GCAL ID**	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	**Client ID**	M114MW004			944807MS			944807MSD			
Prep Batch N/A	**GCAL ID**	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	500	453	91	80 - 120	457	91	0.9	20

Analytical Batch 455917	**Client ID**	MB455917			LCS455917		
Prep Batch N/A	**GCAL ID**	945315			945316		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 09:58			05/07/2011 09:58		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	458	92	80 - 120

Analytical Batch 455917	**Client ID**	M114MW002			945264MS		
Prep Batch N/A	**GCAL ID**	21105060805			945317		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/07/2011 10:00			05/07/2011 10:01		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 455917	**Client ID**	M114MW002		945264DUP		
Prep Batch N/A	**GCAL ID**	21105060805		945318		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/07/2011 10:00		05/07/2011 10:02		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

Analytical Batch 456016	**Client ID**	MB456016			LCS456016		
Prep Batch N/A	**GCAL ID**	945708			945709		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 10:04			05/10/2011 10:05		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456016	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	**GCAL ID**	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 10:06			05/10/2011 10:06			05/10/2011 10:07			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	500	478	96	80 - 120	495		3	20

Analytical Batch 456081	**Client ID**	MB456081			LCS456081		
Prep Batch N/A	**GCAL ID**	945975			945976		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:26			05/11/2011 08:26		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	494	99	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456081	**Client ID**	M114MW001			945961MS		
Prep Batch N/A	**GCAL ID**	21105060815			945978		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/11/2011 08:27			05/11/2011 08:27		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	499	100	80 - 120

Analytical Batch 456081	**Client ID**	M114MW001		945961DUP		
Prep Batch N/A	**GCAL ID**	21105060815		945977		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/11/2011 08:27		05/11/2011 08:27		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456466	**Client ID**	MB456466			LCS456466		
Prep Batch N/A	**GCAL ID**	947770			947771		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 10:23			05/17/2011 10:23		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	513	103	80 - 120

Analytical Batch 456466	**Client ID**	MWQ23			947763MS		
Prep Batch N/A	**GCAL ID**	21105170902			947773		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/17/2011 10:24			05/17/2011 10:25		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456466	**Client ID**	MWQ23		947763DUP		
Prep Batch N/A	**GCAL ID**	21105170902		947772		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/17/2011 10:24		05/17/2011 10:25		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch	456300	**Client ID**	MB455936	LCS455936
Prep Batch	455936	**GCAL ID**	945393	945394
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCS
		Prep Date	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:07	05/13/2011 16:08
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.020	0.021	107	80 - 120

Analytical Batch	456300	**Client ID**	MB455936	LCSHI455936
Prep Batch	455936	**GCAL ID**	945393	945395
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCSHI
		Prep Date	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:07	05/13/2011 17:15
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
57-12-5	Total Cyanide	0.00055U	0.00055	0.10	0.12	117	80 - 120

Analytical Batch	456300	**Client ID**	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch	455936	**GCAL ID**	21105060810	21105060811	21105060812
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	05/12/2011 11:30	05/12/2011 11:30	05/12/2011 11:30
		Analytical Date	05/13/2011 16:22	05/13/2011 16:23	05/13/2011 16:24
		Matrix	Water	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0473	95.0	80 - 120	0.0481	96.0	2.0	20

General Chemistry Quality Control Summary

Analytical Batch	456455	**Client ID**	301-128			301-128 MS			301-128 MSD			
Prep Batch	455936	**GCAL ID**	21105093001			21105093002			21105093003			
Prep Method	SM 4500 CN E	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/17/2011 09:28			05/17/2011 09:29			05/17/2011 09:30			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide		0.0010	0.00055	0.050	0.042	82.8	80 - 120	0.042	82.2	0.71	20

Analytical Batch	456904	**Client ID**	MB456439			LCS456439		
Prep Batch	456439	**GCAL ID**	947658			947659		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCS		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:51		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.020	0.018	88.0	80 - 120

Analytical Batch	456904	**Client ID**	MB456439			LCSHI456439		
Prep Batch	456439	**GCAL ID**	947658			947660		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCSHI		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:52		
		Matrix	Water			Water		
SW-846 9012A Cyanide			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide		0.00055U	0.00055	0.10	0.087	87.2	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	**GCAL ID**	21105042616		21105042617			21105042618			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	9012A	**Prep Date**	05/19/2011 16:30		05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59		05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
57-12-5	Total Cyanide	0.0	0.00055	0.050	0.040	**79.2***	80 - 120	0.040	**79.6***	0.50	20

Analytical Batch	456904	**Client ID**	MWQ-14		947214DUP		
Prep Batch	456439	**GCAL ID**	21105042616		947661		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	9012A	**Prep Date**	05/19/2011 16:30		05/19/2011 16:30		
		Analytical Date	05/23/2011 10:59		05/23/2011 11:00		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Result**		**RPD**	
		Result	**RDL**				**Limit**
57-12-5	Total Cyanide	0.0	0.00055	0.0		0.0	25

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21105060 8	5-13-11

Report to:
Client: Trinity AOC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0095

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Hg	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3	ALK/TTS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X			*	~~2~~ 1
GW	5/5/11	1223		✓	MA02 MW001D		12	X	X	X	X	X	X	X	X	X			1	~~1~~ 1
GW	5/5/11	1516		✓	M114 MW004		12	X	X	X	X	X	X	X	X	X			2	~~2~~ 1
	5/5/11	926			TB1		3												3	~~3~~ 1
	5/5/11	926			TB2		3												4	~~4~~ 1

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/6/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* Sample was a equipment wash

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite 2
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	Alk/TS	VOC (HCl) 8260			Remarks:	Lab ID
GW	5/6/11	1135		X	M114 MW003		12	X	X	X	X	X	X	X	X	X				5
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X				6
GW	5/6/11	1430		X	M114MW003		12	X	X	X	X	X	X	X	X	X				7
	5/6/11				TB4		3									X				8
	5/6/11				TB5		3									X				9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/6/11	1523
Relinquished by: (Signature) Fedex	Received by: (Signature) [signature]	Date: 5/7/11	Time: 0857
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	211050608	5/17/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	SO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	1
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				12, 13
	5/9/11				TB6		3					X								14
	~~5/9/11~~				~~TB7~~		~~3~~					~~X~~								

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[signature]	5-10-11	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample will be received at lab 5-11-11

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CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211050608	5-18-11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 2430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CTISO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				
	5/9/11				TB6		3					X								
	5/9/11				TB7		3					X								
	5/10/11				TB8 *															17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5-11-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * samples received 5-11-11 @ 725

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	5-18-4

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCL)	ALKT/TS	Cl/SO4 /NO3 /NO2	CrVI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				19
	5/10/11				TB7		3						X							20
					TB8		3						X						X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5-11-11	845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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CHAIN OF CUSTODY RECORD

211050608

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4717	~~211050426~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy AZ
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	COD	Cyanide (NaOH)	Perchlorate	Chloride/Nitrate/SO4	Alkt/TS	VOCs (HCL)			Remarks:	Lab ID
GW	5/16/11	935		X	MA01 MW002		12	X	X	X	X	X	X	X	X	X			~~19~~ 21	
GW	5/16/11	1110		X	MW023		12	X	X	X	X	X	X	X	X	X			~~20~~ 22	
					TB9		3									X			~~21~~ 23	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/16/11	1539
Relinquished by: (Signature) Fed Ex	Received by: (Signature) Fed Ex	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) [signature]	Date: 5/17/11	Time: 0900

Note: MW023 was not field filtered. Filter in lab.

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We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050608

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Raborn, Michelle

Received Date/Time: 5/7/2011 8:57:00 AM

Samples Received via: EXT

Number of Coolers Received: 9

Cooler tracking numbers(s): 8735 2663 9166, 8735 2663 9213, 8735 2663 9225, 8735 2663 8939, 8735 2663 9267, 8735 2663 9155, 8735 2663 9166,

Cooler temperature(s): Varies noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Containers preserved at the laboratory: 211050608~~02~~-22-5(L-HNO3) AM 5/20/11

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times noted on the COC.

June 02, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1105178

TEL: (225) 769-4900
FAX: (225) 767-5717

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 12 sample(s) on 5/19/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105178

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Analysis Requested: PERCHLORATES 6860

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/5/11	1223		X	21105060801			X	MAO2MW001D	
02	W	5/5/11	1516		X	21105060802			X	M114MW004	
03	W	5/6/11	1135		X	21105060805			X	M114MW002	
04	W	5/6/11	1230		X	21105060806			X	EB1	
05	W	5/6/11	1430		X	21105060807			X	M114MW003	
06	W	5/9/11	1416		X	21105060810			X	MAO1MW001	
07	W	5/9/11	1416		X	21105060811 MS OF 0810			X	MAO1MW001-MS	
08	W	5/9/11	1416		X	21105060812 MSD OF 0810			X	MAO1MW001-MSD	
09	W	5/9/11	0955		X	21105060815			X	M114MW001	
10	W	5/9/11	0955		X	21105060816			X	M114MW001-DUP	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/10/11	16:15
[signature]	[signature]	5/12/11	1030

Note: Receiving temp 2.6° Therm #57 no custody seals

Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

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Analysis Requested

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* Our Project Number must appear on the final report.

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
W	5/10/11	1111		X	21105060818			X	MAOMW004	
W	5/10/11	1320		X	21105060819			X	MAOMW003	
W	5/16/11	1135		X	21105170901			X	MAO1MW002	
W	5/16/11	1110		X	21105170902			X	MWQ23	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/18/11	16:15
[signature]	[signature]	5/15/11	1330

Note: Receiving temps 2.6 2.6 therm #57 no custody seals

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

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From: (225) 769-4900
Michelle Raborn

7979 GSRI Ave

Baton Rouge, LA 70820

Origin ID: OPLA

FedEx Express

J1154902250225

Ship Date: 18MAY11
ActWgt: 37.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222 BILL SENDER

JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

Ref #
Invoice #
PO #
Dept #

THU - 19 MAY A1
PRIORITY OVERNIGHT

TRK# 7947 7395 1481
0201

78664
TX-US
AUS

A8 BSMA

500G1/5778/FFB

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 5/19/2011

Work Order Number 1105178

Received by JB

Checklist completed by: Signature | Date 5/19/11

Reviewed by Initials | Date 5-19-11

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.6 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

06/02/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: ICMS-110526A

ICAL Folder: ICMS_ClO4-101118

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst 6/1/11 Date

2nd Level Review 6-1-2011 Date

Manual Integrations Tracking Form_ICMS_110526A

Initial Calibration Summary

Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Recording Time:	**5/26/2011 13:16**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	768.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893

6/1/11

Internal Standard Summary

Sequence Name:	**110526_CLO4**
Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.518~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

6/1/11

1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11
S

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/19/11. A total of 12 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the conductivity of the samples exceeding the MCT. The samples are: 21105060801, 21105060802, 21105060805, 21105060807, 21105060815 and 21105060816. Sample 21105060801 was further prepared with a smaller volume of 10 ml for final analysis because the Perchlorate concentration exeeded the upper calibration range.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 10 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/19/11. Sample summary sent via email from Log-in to client on 5/19/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105178-01	21105060801		05/05/11 12:23 PM	05/19/11
1105178-02	21105060802		05/05/11 03:16 PM	05/19/11
1105178-03	21105060805		05/06/11 11:35 AM	05/19/11
1105178-04	21105060806		05/06/11 12:30 PM	05/19/11
1105178-05	21105060807		05/06/11 02:30 PM	05/19/11
1105178-06	21105060810		05/09/11 02:16 PM	05/19/11
1105178-07	21105060815		05/09/11 09:55 AM	05/19/11
1105178-08	21105060816		05/09/11 09:55 AM	05/19/11
1105178-09	21105060818		05/10/11 11:11 AM	05/19/11
1105178-10	21105060819		05/10/11 01:20 PM	05/19/11
1105178-11	21105170901		05/16/11 11:35 AM	05/19/11
1105178-12	21105170902		05/16/11 11:10 AM	05/19/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105178-01A	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-02A	21105060802	05/05/11 03:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-03A	21105060805	05/06/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-04A	21105060806	05/06/11 12:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-05A	21105060807	05/06/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-06A	21105060810	05/09/11 02:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-07A	21105060815	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-08A	21105060816	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-09A	21105060818	05/10/11 11:11 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-10A	21105060819	05/10/11 01:20 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-11A	21105170901	05/16/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-12A	21105170902	05/16/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105178-01A	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 03:52 PM	ICMS_110526A
	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/31/11 04:47 PM	ICMS_110526A
1105178-02A	21105060802	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:10 PM	ICMS_110526A
1105178-03A	21105060805	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:27 PM	ICMS_110526A
1105178-04A	21105060806	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:45 PM	ICMS_110526A
1105178-05A	21105060807	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:03 PM	ICMS_110526A
1105178-06A	21105060810	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:21 PM	ICMS_110526A
1105178-07A	21105060815	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:07 PM	ICMS_110526A
1105178-08A	21105060816	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:25 PM	ICMS_110526A
1105178-09A	21105060818	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:42 PM	ICMS_110526A
1105178-10A	21105060819	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:00 PM	ICMS_110526A
1105178-11A	21105170901	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:18 PM	ICMS_110526A
1105178-12A	21105170902	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:35 PM	ICMS_110526A

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060801
Project:	DoD Perchlorate	**Lab ID:**	1105178-01
Project No:	211050608	**Collection Date:**	05/05/11 12:23 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0224	0.000495	0.00149	N	mg/L	1	05/31/11 04:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060802
Project:	DoD Perchlorate	**Lab ID:**	1105178-02
Project No:	211050608	**Collection Date:**	05/05/11 03:16 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00279	0.000198	0.000594	N	mg/L	1	05/26/11 04:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060805
Project:	DoD Perchlorate	**Lab ID:**	1105178-03
Project No:	211050608	**Collection Date:**	05/06/11 11:35 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00280	0.000198	0.000594	N	mg/L	1	05/26/11 04:27 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060806
Project:	DoD Perchlorate	**Lab ID:**	1105178-04
Project No:	211050608	**Collection Date:**	05/06/11 12:30 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 04:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060807
Project:	DoD Perchlorate	**Lab ID:**	1105178-05
Project No:	211050608	**Collection Date:**	05/06/11 02:30 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00410	0.000198	0.000594	N	mg/L	1	05/26/11 05:03 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060810
Project:	DoD Perchlorate	**Lab ID:**	1105178-06
Project No:	211050608	**Collection Date:**	05/09/11 02:16 PM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000369	0.000100	0.000300	N	mg/L	1	05/26/11 05:21 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060815
Project:	DoD Perchlorate	**Lab ID:**	1105178-07
Project No:	211050608	**Collection Date:**	05/09/11 09:55 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00327	0.000198	0.000594	N	mg/L	1	05/26/11 07:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060816
Project:	DoD Perchlorate	**Lab ID:**	1105178-08
Project No:	211050608	**Collection Date:**	05/09/11 09:55 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00324	0.000198	0.000594	N	mg/L	1	05/26/11 07:25 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105060818
Project:	DoD Perchlorate	**Lab ID:**	1105178-09
Project No:	211050608	**Collection Date:**	05/10/11 11:11 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00980	0.000100	0.000300	N	mg/L	1	05/26/11 07:42 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060819
Lab ID: 1105178-10
Collection Date: 05/10/11 01:20 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00103	0.000100	0.000300	N	mg/L	1	05/26/11 08:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105170901
Project:	DoD Perchlorate	**Lab ID:**	1105178-11
Project No:	211050608	**Collection Date:**	05/16/11 11:35 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00205	0.000100	0.000300	N	mg/L	1	05/26/11 08:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 06/02/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21105170902
Project:	DoD Perchlorate	**Lab ID:**	1105178-12
Project No:	211050608	**Collection Date:**	05/16/11 11:10 AM
Lab Order:	1105178	**Matrix:**	Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 08:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	MB-46494	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MBLK	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 03:34 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000300	0.000300								NU

Sample ID:	1105178-06AMS	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MS	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 05:38 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000690	0.000300	0.000300	0.000369	107	85	115			N

Sample ID:	1105178-06AMSD	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	MSD	Run ID:	ICMS_110526A		Analysis Date:	05/26/11 05:56 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000653	0.000300	0.000300	0.000369	94.8	85	115	5.47	20	N

Sample ID:	LCS-46494	Batch ID:	46494		TestNo:	SW6860		Units:	mg/L	
SampType:	LCS	Run ID:	ICMS_110526A		Analysis Date:	05/31/11 04:30 PM		Prep Date:	05/26/11	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000324	0.000300	0.000300	0	108	85	115			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000220	0.000300	0.000200	0	110	70	130			N

Sample ID:	ICV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00202	0.000300	0.00200	0	101	85	115			N

Sample ID:	ICS1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 02:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000261	0.000300	0.000300	0	87.1	85	115			N

Sample ID:	CCV1-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:14 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00506	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 06:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000227	0.000300	0.000200	0	114	70	130			N

Sample ID:	CCV2-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 09:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00493	0.000300	0.00500	0	98.6	85	115			N

Sample ID:	LCVL3-110526	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/26/11 10:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000257	0.000300	0.000200	0	129	70	130			N

Sample ID:	LCVL1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000196	0.000300	0.000200	0	98.2	70	130			N

Sample ID:	ICV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00200	0.000300	0.00200	0	100	85	115			N

Sample ID:	ICS1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 11:14 AM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:04 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/27/11 03:22 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:31 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 10:48 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 11:06 AM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 01:45 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 02:03 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:23 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	**Batch ID:**	R55139	**TestNo:**	SW6860	**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_110526A	**Analysis Date:**	05/31/11 05:41 PM	**Prep Date:**	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 06/02/11

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
LCS-46494	-----	SW6860	46494	1	05/26/11 03:17 PM	05/26/11
MB-46494	-----	SW6860	46494	1	05/26/11 03:34 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/26/11 03:52 PM	05/26/11
1105178-02A	21105060802	SW6860	46494	1	05/26/11 04:10 PM	05/26/11
1105178-03A	21105060805	SW6860	46494	1	05/26/11 04:27 PM	05/26/11
1105178-04A	21105060806	SW6860	46494	1	05/26/11 04:45 PM	05/26/11
1105178-05A	21105060807	SW6860	46494	1	05/26/11 05:03 PM	05/26/11
1105178-06A	21105060810	SW6860	46494	1	05/26/11 05:21 PM	05/26/11
1105178-06AMS	21105060810MS	SW6860	46494	1	05/26/11 05:38 PM	05/26/11
1105178-06AMSD	21105060810MSD	SW6860	46494	1	05/26/11 05:56 PM	05/26/11
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105178-07A	21105060815	SW6860	46494	1	05/26/11 07:07 PM	05/26/11
1105178-08A	21105060816	SW6860	46494	1	05/26/11 07:25 PM	05/26/11
1105178-09A	21105060818	SW6860	46494	1	05/26/11 07:42 PM	05/26/11
1105178-10A	21105060819	SW6860	46494	1	05/26/11 08:00 PM	05/26/11
1105178-11A	21105170901	SW6860	46494	1	05/26/11 08:18 PM	05/26/11
1105178-12A	21105170902	SW6860	46494	1	05/26/11 08:35 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	

DHL Analytical

Date: 06/02/11

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
LCS-46494	-----	SW6860	46494	1	05/31/11 04:30 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/31/11 04:47 PM	05/26/11
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 10/20/2011

GCAL Report 211092804

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose - Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211092804

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q- LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

J - Indicates a positive result was obtained and the sample had a surrogate failure above the upper control limit or the sample had positive results and/or non-detects and had a surrogate recovery below the lower control limit.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 466398, the % Drift is outside ±20% for Chloroethane in the CCV. The recovery is high and this compound was not detected in the associated sample.

In the SW-846 8260B analysis for analytical batch 466441, the % Drift is outside ±20% for n-Butylbenezene in the CCV. The recovery is high and this compound was not detected in the associated sample.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis of prep batch 466485, the MSD exhibited a recovery failure. All other batch QC is acceptable.

In the SW-846 8330 analysis, the recovery for the surrogate is below the lower control limit in samples 21109280410 (MWQ 23), 21109280412 (MA01 MW0002), 21110010505 (M114MW002), and 21110010506 (M114MW003). The first two samples were not re-extracted due to expiration of the holding time. The client was notified of the exception. Sample 21110010505 (M114MW002) was re-extracted and re-analyzed with a recovery of 37% (first extract recovery 61%) and sample 21110010506 (M114MW003) was re-extracted and re-analyzed with a recovery of 34% (first extract recovery 67%).

In the SW-846 8330 analysis, the recovery for 2,6-Dinitrotoluene is above the upper control limit in the ICV. This compound was not detected in the associated samples.

METALS

Several dissolved metal concentrations are greater than the total concentration of these analytes in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010C analysis, samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D) and 21109280408 (FD-1) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the SW-846 6010C analysis, a chemical or physical interference necessitated a dilution for sample 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002) and 21110010506 (M114MW003). This is reflected in the elevated detection limits.

In the SW-846 6010C analysis for prep batch 466323, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. Sodium was detected in the method blank at a concentration > ½ the RL. The concentration is acceptable at <RL for this common lab contaminant.

In the SW-846 6010C analysis for prep batch 466324, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium and Calcium because the sample concentration is greater than four times the spike concentration. The method blank (992256) was re-analyzed for Calcium on ICP6 10/05/11 at 1342. The rerun data is reported on the Form 3 with the data from the original run because only one schedule can be entered in the data system for a method blank. Calcium was detected at concentration greater than the PQL in the method blank. The concentration is less than 10% of the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 466511, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 123% for Arsenic, 109% for Potassium, and 124% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 466510, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 117% for Arsenic, 111% for Potassium, and 117% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A Dissolved and SW-846 7470A analysis for prep batch 466512, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B analysis, Sodium was detected in a CCB (ICP6, 10/04/11 0023) at a concentration > LOD. The concentration is less than 10% of the concentration detected in the associated samples.

p**CONVENTIONALS**

In the EPA 300.0 analysis, samples 21109280401 (MA01MW001), 21109280402 (MA01MW003), 21109280403 (MA01MW003-MS), 21109280404 (MA01MW003-MSD), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21109280410 (MWQ-23), 21109280411 (MA01-MW004), 21109280412 (MA01-MW002), 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002), and 21110010506 (M114MW003) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21109280407 (MA02 MW001D), 21109280408 (FD-1)21110010501 (M114MW004) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the EPA 353.2 analysis for analytical batch 466506, the MS/MSD recovery was outside the control limits for Nitrate. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

The Sample/Duplicate RPD for Chromium VI for analytical batch 466230 is not applicable because the

sample and/or duplicate concentration is less than five times the reporting limit.

Samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21110010505 (M114MW002), were received with insufficient time to process the samples in receiving and start the Chromium VI analysis within the 24-hour holding time. Sample 21110010504 (EB-1) was received outside the 24-hour holding time for Chromium VI.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 211092804

THIS REPORT CONTAINS 214 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10
21109280405	TB-1	Water	09/27/2011 16:33	09/28/2011 09:10
21109280406	MA01MW003-DUP	Water	09/27/2011 12:21	09/28/2011 09:10
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15
21109280409	TB-2	Water	09/28/2011 10:28	09/29/2011 09:15
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15
21109280413	TB-4	Water	09/29/2011 08:40	09/30/2011 09:15
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00
21110010503	TB-5	Water	09/30/2011 10:00	10/01/2011 09:00
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00
21110010507	TB-6	Water	10/03/2011 08:00	10/04/2011 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	84.3J	200	60.0	ug/L
7440-39-3	Barium	14.9	10.0	1.59	ug/L
7440-47-3	Chromium	1.06J	10.0	1.00	ug/L
7440-50-8	Copper	10.6	10.0	1.69	ug/L
7439-95-4	Magnesium	48100	100	50.0	ug/L
7439-96-5	Manganese	5.72J	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.42J	50.0	3.75	ug/L
7440-09-7	Potassium	7120	500	100	ug/L
7440-23-5	Sodium	569000	1000	200	ug/L
7440-62-2	Vanadium	23.0	20.0	3.75	ug/L
7440-66-6	Zinc	229	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	51000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	14.7	10.0	1.59	ug/L
7440-50-8	Copper	11.7	10.0	1.69	ug/L
7439-95-4	Magnesium	51400	100	50.0	ug/L
7439-98-7	Molybdenum	4.61J	50.0	3.75	ug/L
7440-09-7	Potassium	7670	500	100	ug/L
7440-62-2	Vanadium	26.1	20.0	3.75	ug/L
7440-66-6	Zinc	248	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	556000	2000	400	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	51300	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.116	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1990	10.0	10.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	525	50.0	10.5	mg/L
14808-79-8	Sulfate	564	100	39.5	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	172	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09518B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	5.29B	60.0	3.98	ug/L
7440-39-3	Barium	20.7	10.0	1.59	ug/L
7440-47-3	Chromium	1.96B	10.0	1.00	ug/L
7440-50-8	Copper	13.7	10.0	1.69	ug/L
7439-95-4	Magnesium	61200	100	50.0	ug/L
7439-96-5	Manganese	10.2B	15.0	2.00	ug/L
7440-09-7	Potassium	7750	500	100	ug/L
7440-23-5	Sodium	459000	1000	200	ug/L
7440-32-6	Titanium	1.24B	100	1.20	ug/L
7440-62-2	Vanadium	29.6	20.0	3.75	ug/L
7440-66-6	Zinc	339	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	64100	100	50.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	18.1	10.0	1.59	ug/L
7440-50-8	Copper	12.7	10.0	1.69	ug/L
7439-95-4	Magnesium	58700	100	50.0	ug/L
7439-96-5	Manganese	8.24B	15.0	2.00	ug/L
7440-09-7	Potassium	7620	500	100	ug/L
7440-23-5	Sodium	430000	1000	200	ug/L
7440-62-2	Vanadium	26.7	20.0	3.75	ug/L
7440-66-6	Zinc	316	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	58600	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.085	0.010	0.003	mg/L-N

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1790	10.0	10.0	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	477	50.0	10.5	mg/L
14808-79-8	Sulfate	524	100	39.5	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	152	1.0	0.34	mg/L CaCO3

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0499	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5240	200	60.0	ug/L
7440-36-0	Antimony	547	60.0	3.98	ug/L
7440-38-2	Arsenic	562	10.0	3.49	ug/L
7440-39-3	Barium	537	10.0	1.59	ug/L
7440-41-7	Beryllium	526	5.00	0.082	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-47-3	Chromium	503	10.0	1.00	ug/L
7440-48-4	Cobalt	518	10.0	1.00	ug/L
7440-50-8	Copper	541	10.0	1.69	ug/L
7439-89-6	Iron	5200	100	40.0	ug/L
7439-92-1	Lead	509	15.0	2.83	ug/L
7439-95-4	Magnesium	70500	100	50.0	ug/L
7439-96-5	Manganese	528	15.0	2.00	ug/L
7439-98-7	Molybdenum	536	50.0	3.75	ug/L
7440-02-0	Nickel	517	40.0	0.84	ug/L
7440-09-7	Potassium	19000	500	100	ug/L
7782-49-2	Selenium	546	40.0	3.79	ug/L
7440-22-4	Silver	534	10.0	0.64	ug/L
7440-23-5	Sodium	522000	1000	200	ug/L
7440-28-0	Thallium	511	20.0	2.60	ug/L
7440-32-6	Titanium	518	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	886	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	68700	100	50.0	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.51	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4880	200	60.0	ug/L
7440-36-0	Antimony	504	60.0	3.98	ug/L
7440-38-2	Arsenic	503	10.0	3.49	ug/L
7440-39-3	Barium	495	10.0	1.59	ug/L
7440-41-7	Beryllium	481	5.00	0.082	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	469	5.00	0.20	ug/L
7440-47-3	Chromium	464	10.0	1.00	ug/L
7440-48-4	Cobalt	466	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4850	100	40.0	ug/L
7439-92-1	Lead	459	15.0	2.83	ug/L
7439-95-4	Magnesium	67200	100	50.0	ug/L
7439-96-5	Manganese	487	15.0	2.00	ug/L
7439-98-7	Molybdenum	502	50.0	3.75	ug/L
7440-02-0	Nickel	463	40.0	0.84	ug/L
7440-09-7	Potassium	17800	500	100	ug/L
7782-49-2	Selenium	476	40.0	3.79	ug/L
7440-22-4	Silver	485	10.0	0.64	ug/L
7440-23-5	Sodium	492000	1000	200	ug/L
7440-28-0	Thallium	465	20.0	2.60	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	509	20.0	3.75	ug/L
7440-66-6	Zinc	810	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	70400	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.32	0.20	0.075	ug/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.558	0.010	0.003	mg/L-N

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	2.07	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	2.09	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.94	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	2.16	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.89	0.505	0.109	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.85	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.70	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.51	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.51	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.42	0.505	0.117	ug/L
2691-41-0	HMX	2.30	0.202	0.035	ug/L
98-95-3	Nitrobenzene	2.04	0.505	0.137	ug/L
121-82-4	RDX	1.78	0.202	0.067	ug/L
479-45-8	Tetryl	1.21	0.505	0.202	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1690	50.0	10.5	mg/L
14808-79-8	Sulfate	3070	100	39.5	mg/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	469	10.0	3.30	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.9	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	52.8	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.8	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	50.8	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.1	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	52.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	53.6	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	52.5	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.8	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.6	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.3	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.7	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	50.2	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	53.9	1	0.112	ug/L
78-93-3	2-Butanone	41.3	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.5	1	0.090	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
591-78-6	2-Hexanone	43.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	54.0	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	51.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	57.1	5	0.142	ug/L
67-64-1	Acetone	28.9	5	0.322	ug/L
71-43-2	Benzene	52.3	1	0.049	ug/L
108-86-1	Bromobenzene	49.8	1	0.095	ug/L
74-97-5	Bromochloromethane	53.3	1	0.238	ug/L
75-27-4	Bromodichloromethane	54.2	1	0.071	ug/L
75-25-2	Bromoform	58.4	1	0.278	ug/L
74-83-9	Bromomethane	47.4	1	0.276	ug/L
75-15-0	Carbon disulfide	51.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	53.2	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	58.6	1	0.279	ug/L
67-66-3	Chloroform	49.1	1	0.062	ug/L
74-87-3	Chloromethane	53.1	1	0.076	ug/L
74-95-3	Dibromomethane	54.2	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.0	1	0.088	ug/L
100-41-4	Ethylbenzene	53.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	51.2	1	0.058	ug/L
75-09-2	Methylene chloride	54.8	5	0.102	ug/L
91-20-3	Naphthalene	48.5	1	0.175	ug/L
100-42-5	Styrene	51.3	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.6	1	0.141	ug/L
108-88-3	Toluene	49.3	1	0.078	ug/L
79-01-6	Trichloroethene	51.5	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	50.7	1	0.094	ug/L
75-01-4	Vinyl chloride	50.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	53.4	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.0	1	0.105	ug/L
136777-61-2	m,p-Xylene	104	2	0.099	ug/L
104-51-8	n-Butylbenzene	55.6	1	0.068	ug/L
103-65-1	n-Propylbenzene	53.5	1	0.069	ug/L
95-47-6	o-Xylene	51.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	54.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	53.2	5	0.084	ug/L
98-06-6	tert-Butylbenzene	57.4	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	50.9	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	58.7	1	0.068	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0497	0.0050	0.0006	mg/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.38	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4820	200	60.0	ug/L
7440-36-0	Antimony	493	60.0	3.98	ug/L
7440-38-2	Arsenic	505	10.0	3.49	ug/L
7440-39-3	Barium	488	10.0	1.59	ug/L
7440-41-7	Beryllium	479	5.00	0.082	ug/L
7440-43-9	Cadmium	467	5.00	0.20	ug/L
7440-47-3	Chromium	457	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4780	100	40.0	ug/L
7439-92-1	Lead	455	15.0	2.83	ug/L
7439-95-4	Magnesium	67300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	483	50.0	3.75	ug/L
7440-02-0	Nickel	460	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	481	40.0	3.79	ug/L
7440-22-4	Silver	484	10.0	0.64	ug/L
7440-23-5	Sodium	490000	1000	200	ug/L
7440-28-0	Thallium	460	20.0	2.60	ug/L
7440-32-6	Titanium	473	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	814	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	4.41	0.20	0.075	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4730	200	60.0	ug/L
7440-36-0	Antimony	500	60.0	3.98	ug/L
7440-38-2	Arsenic	497	10.0	3.49	ug/L
7440-39-3	Barium	485	10.0	1.59	ug/L
7440-41-7	Beryllium	471	5.00	0.082	ug/L
7440-43-9	Cadmium	458	5.00	0.20	ug/L
7440-47-3	Chromium	456	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	481	10.0	1.69	ug/L
7439-89-6	Iron	4700	100	40.0	ug/L
7439-92-1	Lead	453	15.0	2.83	ug/L
7439-95-4	Magnesium	65100	100	50.0	ug/L
7439-96-5	Manganese	481	15.0	2.00	ug/L
7439-98-7	Molybdenum	495	50.0	3.75	ug/L
7440-02-0	Nickel	459	40.0	0.84	ug/L
7440-09-7	Potassium	17300	500	100	ug/L
7782-49-2	Selenium	475	40.0	3.79	ug/L
7440-22-4	Silver	475	10.0	0.64	ug/L
7440-23-5	Sodium	486000	1000	200	ug/L
7440-28-0	Thallium	464	20.0	2.60	ug/L
7440-32-6	Titanium	483	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	794	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.560	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1680	50.0	10.5	mg/L
14808-79-8	Sulfate	3040	100	39.5	mg/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	1.74	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	1.70	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.68	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	1.75	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.46	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.66	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.44	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.15	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.33	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.10	0.505	0.117	ug/L
2691-41-0	HMX	1.84	0.202	0.035	ug/L
98-95-3	Nitrobenzene	1.67	0.505	0.137	ug/L
121-82-4	RDX	1.39	0.202	0.067	ug/L
479-45-8	Tetryl	0.919	0.505	0.202	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	471	10.0	3.30	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.8	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.9	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.5	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.5	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	51.7	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	48.4	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.6	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	55.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.1	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	50.6	1	0.112	ug/L
78-93-3	2-Butanone	40.4	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.7	1	0.090	ug/L
591-78-6	2-Hexanone	44.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.8	1	0.046	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
99-87-6	4-Isopropyltoluene	50.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.2	5	0.142	ug/L
67-64-1	Acetone	27.8	5	0.322	ug/L
71-43-2	Benzene	49.9	1	0.049	ug/L
108-86-1	Bromobenzene	49.5	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	51.3	1	0.071	ug/L
75-25-2	Bromoform	57.0	1	0.278	ug/L
74-83-9	Bromomethane	47.1	1	0.276	ug/L
75-15-0	Carbon disulfide	49.3	1	0.190	ug/L
56-23-5	Carbon tetrachloride	49.1	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	56.5	1	0.279	ug/L
67-66-3	Chloroform	46.6	1	0.062	ug/L
74-87-3	Chloromethane	50.3	1	0.076	ug/L
74-95-3	Dibromomethane	51.2	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	46.4	1	0.088	ug/L
100-41-4	Ethylbenzene	52.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.9	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	49.9	1	0.058	ug/L
75-09-2	Methylene chloride	51.8	5	0.102	ug/L
91-20-3	Naphthalene	49.1	1	0.175	ug/L
100-42-5	Styrene	50.4	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.4	1	0.141	ug/L
108-88-3	Toluene	49.1	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	47.2	1	0.094	ug/L
75-01-4	Vinyl chloride	48.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	50.6	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6	1	0.105	ug/L
136777-61-2	m,p-Xylene	102	2	0.099	ug/L
104-51-8	n-Butylbenzene	54.0	1	0.068	ug/L
103-65-1	n-Propylbenzene	52.5	1	0.069	ug/L
95-47-6	o-Xylene	50.6	1	0.077	ug/L
135-98-8	sec-Butylbenzene	53.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8	5	0.084	ug/L
98-06-6	tert-Butylbenzene	55.7	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	48.1	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	55.3	1	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.34	mg/L CaCO3

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1740	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.44B	10.0	1.59	ug/L
7440-50-8	Copper	23.8	10.0	1.69	ug/L
7439-95-4	Magnesium	73300	100	50.0	ug/L
7439-96-5	Manganese	188	15.0	2.00	ug/L
7439-98-7	Molybdenum	15.2B	50.0	3.75	ug/L
7440-02-0	Nickel	2.14B	40.0	0.84	ug/L
7440-09-7	Potassium	9280	500	100	ug/L
7782-49-2	Selenium	132	40.0	3.79	ug/L
7440-62-2	Vanadium	25.9	20.0	3.75	ug/L
7440-66-6	Zinc	301	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1630000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	119000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	9.84B	10.0	1.59	ug/L
7440-47-3	Chromium	1.31B	10.0	1.00	ug/L
7440-50-8	Copper	25.3	10.0	1.69	ug/L
7439-95-4	Magnesium	67600	100	50.0	ug/L
7439-96-5	Manganese	209	15.0	2.00	ug/L
7439-98-7	Molybdenum	14.0B	50.0	3.75	ug/L
7440-02-0	Nickel	1.43B	40.0	0.84	ug/L
7440-09-7	Potassium	8540	500	100	ug/L
7782-49-2	Selenium	117	40.0	3.79	ug/L
7440-62-2	Vanadium	24.5	20.0	3.75	ug/L
7440-66-6	Zinc	288	20.0	5.89	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1580000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	114000	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5620	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	142	1.0	0.34	mg/L CaCO3

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.035	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1640	100	21.0	mg/L
14808-79-8	Sulfate	1860	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	78.9B	200	60.0	ug/L
7440-39-3	Barium	10.1	10.0	1.59	ug/L
7440-47-3	Chromium	1.31B	10.0	1.00	ug/L
7440-50-8	Copper	25.0	10.0	1.69	ug/L
7439-95-4	Magnesium	69100	100	50.0	ug/L
7439-96-5	Manganese	210	15.0	2.00	ug/L
7439-98-7	Molybdenum	14.2B	50.0	3.75	ug/L
7440-02-0	Nickel	1.82B	40.0	0.84	ug/L
7440-09-7	Potassium	8720	500	100	ug/L
7782-49-2	Selenium	122	40.0	3.79	ug/L
7440-62-2	Vanadium	25.6	20.0	3.75	ug/L
7440-66-6	Zinc	290	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1630000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	116000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.85B	10.0	3.49	ug/L
7440-39-3	Barium	9.39B	10.0	1.59	ug/L
7440-50-8	Copper	23.6	10.0	1.69	ug/L
7439-95-4	Magnesium	73800	100	50.0	ug/L
7439-96-5	Manganese	188	15.0	2.00	ug/L
7439-98-7	Molybdenum	15.3B	50.0	3.75	ug/L
7440-02-0	Nickel	1.58B	40.0	0.84	ug/L
7440-09-7	Potassium	9230	500	100	ug/L
7782-49-2	Selenium	133	40.0	3.79	ug/L
7440-62-2	Vanadium	25.6	20.0	3.75	ug/L
7440-66-6	Zinc	303	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	1600000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	122000	100	50.0	ug/L

SW-846 7196A Chromium VI

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	6.00B	10.0	3.30	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1620	100	21.0	mg/L
14808-79-8	Sulfate	1940	200	79.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	144	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5750	10.0	10.0	mg/L

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.040	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.3	10.0	1.59	ug/L
7440-50-8	Copper	5.68B	10.0	1.69	ug/L
7439-95-4	Magnesium	9550	100	50.0	ug/L
7439-96-5	Manganese	78.0	15.0	2.00	ug/L
7439-98-7	Molybdenum	30.4B	50.0	3.75	ug/L
7440-09-7	Potassium	2570	500	100	ug/L
7440-23-5	Sodium	472000	1000	200	ug/L
7440-62-2	Vanadium	8.39B	20.0	3.75	ug/L
7440-66-6	Zinc	18.4B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	14700	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	10.8	10.0	1.59	ug/L
7440-50-8	Copper	5.14B	10.0	1.69	ug/L
7439-95-4	Magnesium	9680	100	50.0	ug/L
7439-96-5	Manganese	75.9	15.0	2.00	ug/L
7439-98-7	Molybdenum	31.3B	50.0	3.75	ug/L
7440-09-7	Potassium	2470	500	100	ug/L
7440-23-5	Sodium	481000	1000	200	ug/L
7440-32-6	Titanium	2.51B	100	1.20	ug/L
7440-62-2	Vanadium	8.64B	20.0	3.75	ug/L
7440-66-6	Zinc	18.4B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	14700	100	50.0	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	212	20.0	4.20	mg/L
14808-79-8	Sulfate	396	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1310	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.013	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	333	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.4	10.0	1.59	ug/L
7440-50-8	Copper	9.63B	10.0	1.69	ug/L
7439-95-4	Magnesium	36100	100	50.0	ug/L
7439-96-5	Manganese	5.81B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.07B	50.0	3.75	ug/L
7440-09-7	Potassium	6150	500	100	ug/L
7782-49-2	Selenium	5.03B	40.0	3.79	ug/L
7440-23-5	Sodium	323000	1000	200	ug/L
7440-32-6	Titanium	1.52B	100	1.20	ug/L
7440-62-2	Vanadium	32.5	20.0	3.75	ug/L
7440-66-6	Zinc	305	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39900	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08433B	0.20	0.075	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08023B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	23.0	10.0	1.59	ug/L
7440-47-3	Chromium	1.21B	10.0	1.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	Copper	8.23B	10.0	1.69	ug/L
7439-95-4	Magnesium	35500	100	50.0	ug/L
7439-96-5	Manganese	6.56B	15.0	2.00	ug/L
7439-98-7	Molybdenum	4.78B	50.0	3.75	ug/L
7440-09-7	Potassium	6040	500	100	ug/L
7782-49-2	Selenium	6.15B	40.0	3.79	ug/L
7440-23-5	Sodium	321000	1000	200	ug/L
7440-62-2	Vanadium	26.4	20.0	3.75	ug/L
7440-66-6	Zinc	276	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39300	100	50.0	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	200	1.0	0.34	mg/L CaCO3

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	251	20.0	4.20	mg/L
14808-79-8	Sulfate	329	40.0	15.8	mg/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1130	10.0	10.0	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.339	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.1	10.0	1.59	ug/L
7440-47-3	Chromium	1.12B	10.0	1.00	ug/L
7440-50-8	Copper	10.6	10.0	1.69	ug/L
7439-95-4	Magnesium	36100	100	50.0	ug/L
7439-98-7	Molybdenum	6.66B	50.0	3.75	ug/L
7440-09-7	Potassium	6710	500	100	ug/L
7782-49-2	Selenium	4.49B	40.0	3.79	ug/L
7440-23-5	Sodium	533000	1000	200	ug/L
7440-32-6	Titanium	1.37B	100	1.20	ug/L
7440-62-2	Vanadium	27.4	20.0	3.75	ug/L
7440-66-6	Zinc	219	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39100	100	50.0	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09305B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	16.3	10.0	1.59	ug/L
7440-47-3	Chromium	2.47B	10.0	1.00	ug/L
7440-50-8	Copper	10.2	10.0	1.69	ug/L
7439-95-4	Magnesium	35800	100	50.0	ug/L
7439-96-5	Manganese	5.45B	15.0	2.00	ug/L
7439-98-7	Molybdenum	5.93B	50.0	3.75	ug/L
7440-09-7	Potassium	6640	500	100	ug/L
7440-23-5	Sodium	531000	1000	200	ug/L
7440-62-2	Vanadium	25.9	20.0	3.75	ug/L
7440-66-6	Zinc	210	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	39000	100	50.0	ug/L

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1720	10.0	10.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	431	20.0	4.20	mg/L
14808-79-8	Sulfate	514	40.0	15.8	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.207	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	180	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	4.75B	10.0	3.49	ug/L
7440-39-3	Barium	15.0	10.0	1.59	ug/L
7440-43-9	Cadmium	1.40B	5.00	0.20	ug/L
7440-47-3	Chromium	2.38B	10.0	1.00	ug/L
7440-50-8	Copper	17.6	10.0	1.69	ug/L
7439-95-4	Magnesium	283000	100	50.0	ug/L
7439-98-7	Molybdenum	13.3B	50.0	3.75	ug/L
7440-09-7	Potassium	18300	500	100	ug/L
7782-49-2	Selenium	22.4B	40.0	3.79	ug/L
7440-62-2	Vanadium	6.46B	20.0	3.75	ug/L
7440-66-6	Zinc	366	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	339000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2480000	25000	5000	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	110B	200	60.0	ug/L
7440-39-3	Barium	15.2	10.0	1.59	ug/L
7440-43-9	Cadmium	1.58B	5.00	0.20	ug/L
7440-47-3	Chromium	4.29B	10.0	1.00	ug/L
7440-50-8	Copper	13.8	10.0	1.69	ug/L
7439-95-4	Magnesium	283000	100	50.0	ug/L
7439-98-7	Molybdenum	13.1B	50.0	3.75	ug/L
7440-02-0	Nickel	1.22B	40.0	0.84	ug/L
7440-09-7	Potassium	17100	500	100	ug/L
7782-49-2	Selenium	21.6B	40.0	3.79	ug/L
7440-62-2	Vanadium	4.00B	20.0	3.75	ug/L
7440-66-6	Zinc	347	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	303000	100	50.0	ug/L
7439-96-5	Manganese	3.49B	15.0	2.00	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2170000	25000	5000	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3970	200	42.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	59.3	1.0	0.34	mg/L CaCO3

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.511	0.020	0.005	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1630	200	79.0	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9500	10.0	7.00	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	5.42	5	0.322	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.08165J	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	3.83J	10.0	3.49	ug/L
7440-39-3	Barium	16.9	10.0	1.59	ug/L
7440-43-9	Cadmium	1.19J	5.00	0.20	ug/L
7440-47-3	Chromium	4.17J	10.0	1.00	ug/L
7440-50-8	Copper	15.6	10.0	1.69	ug/L
7439-95-4	Magnesium	257000	100	50.0	ug/L
7439-98-7	Molybdenum	18.8J	50.0	3.75	ug/L
7440-02-0	Nickel	9.23J	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	30.1J	40.0	3.79	ug/L
7440-62-2	Vanadium	10.5J	20.0	3.75	ug/L
7440-66-6	Zinc	413	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	285000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	100.0J	200	60.0	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	17.4	10.0	1.59	ug/L
7440-43-9	Cadmium	1.16J	5.00	0.20	ug/L
7440-47-3	Chromium	8.46J	10.0	1.00	ug/L
7440-50-8	Copper	15.8	10.0	1.69	ug/L
7439-89-6	Iron	47.1J	100	40.0	ug/L
7439-95-4	Magnesium	236000	100	50.0	ug/L
7439-98-7	Molybdenum	17.8J	50.0	3.75	ug/L
7440-02-0	Nickel	8.97J	40.0	0.84	ug/L
7440-09-7	Potassium	16400	500	100	ug/L
7782-49-2	Selenium	30.3J	40.0	3.79	ug/L
7440-62-2	Vanadium	14.8J	20.0	3.75	ug/L
7440-66-6	Zinc	394	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	259000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2080000	25000	5000	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3060	100	21.0	mg/L
14808-79-8	Sulfate	1810	200	79.0	mg/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.4	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7640	10.0	7.00	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.899	0.010	0.003	mg/L-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.41J	5	0.322	ug/L
75-09-2	Methylene chloride	0.891J	5	0.102	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.50J	5	0.322	ug/L
75-09-2	Methylene chloride	1.04J	5	0.102	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.10037B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	2.23B	10.0	1.59	ug/L
7440-02-0	Nickel	1.12B	40.0	0.84	ug/L
7440-22-4	Silver	0.67B	10.0	0.64	ug/L
7440-66-6	Zinc	13.6B	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	2.10B	15.0	2.00	ug/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	0.104	0.100	0.021	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	2.38J	5	0.322	ug/L
75-09-2	Methylene chloride	3.55J	5	0.102	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	15.5	10.0	1.59	ug/L
7440-43-9	Cadmium	1.12B	5.00	0.20	ug/L
7440-47-3	Chromium	3.73B	10.0	1.00	ug/L
7440-50-8	Copper	15.8	10.0	1.69	ug/L
7439-95-4	Magnesium	258000	100	50.0	ug/L
7439-98-7	Molybdenum	22.1B	50.0	3.75	ug/L
7440-02-0	Nickel	39.4B	40.0	0.84	ug/L
7440-09-7	Potassium	16800	500	100	ug/L
7782-49-2	Selenium	20.1B	40.0	3.79	ug/L
7440-62-2	Vanadium	10.6B	20.0	3.75	ug/L
7440-66-6	Zinc	234	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	267000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2220000	25000	5000	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	85.3B	200	60.0	ug/L
7440-39-3	Barium	17.3	10.0	1.59	ug/L
7440-43-9	Cadmium	1.37B	5.00	0.20	ug/L
7440-47-3	Chromium	4.92B	10.0	1.00	ug/L
7440-50-8	Copper	13.8	10.0	1.69	ug/L
7439-89-6	Iron	60.5B	100	40.0	ug/L
7439-95-4	Magnesium	255000	100	50.0	ug/L
7439-98-7	Molybdenum	23.7B	50.0	3.75	ug/L
7440-02-0	Nickel	40.6	40.0	0.84	ug/L
7440-09-7	Potassium	16500	500	100	ug/L
7782-49-2	Selenium	23.2B	40.0	3.79	ug/L
7440-32-6	Titanium	2.01B	100	1.20	ug/L
7440-62-2	Vanadium	11.0B	20.0	3.75	ug/L
7440-66-6	Zinc	239	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	251000	100	50.0	ug/L
7439-96-5	Manganese	3.12B	15.0	2.00	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2100000	25000	5000	ug/L

SW-846 7470A

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.10199B	0.20	0.075	ug/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.245	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003B	0.010	0.003	mg/L-N

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.8	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7610	10.0	7.00	mg/L

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3130	100	21.0	mg/L
14808-79-8	Sulfate	1580	200	79.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	0.909J	5	0.322	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 9012A Cyanide

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0009B	0.0050	0.0006	mg/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	200	200	60.0	ug/L
7440-39-3	Barium	14.3	10.0	1.59	ug/L
7440-43-9	Cadmium	1.53B	5.00	0.20	ug/L
7440-47-3	Chromium	2.88B	10.0	1.00	ug/L
7440-50-8	Copper	13.3	10.0	1.69	ug/L
7439-89-6	Iron	162	100	40.0	ug/L
7439-95-4	Magnesium	270000	100	50.0	ug/L
7439-98-7	Molybdenum	9.56B	50.0	3.75	ug/L
7440-09-7	Potassium	17000	500	100	ug/L
7782-49-2	Selenium	29.6B	40.0	3.79	ug/L
7440-32-6	Titanium	2.45B	100	1.20	ug/L
7440-62-2	Vanadium	12.1B	20.0	3.75	ug/L
7440-66-6	Zinc	276	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	317000	100	50.0	ug/L
7439-96-5	Manganese	6.87B	15.0	2.00	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2540000	25000	5000	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.09168B	0.20	0.075	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	11.9	10.0	1.59	ug/L
7440-43-9	Cadmium	1.23B	5.00	0.20	ug/L
7440-47-3	Chromium	1.33B	10.0	1.00	ug/L
7440-50-8	Copper	15.1	10.0	1.69	ug/L
7439-95-4	Magnesium	272000	100	50.0	ug/L
7439-98-7	Molybdenum	8.60B	50.0	3.75	ug/L
7440-09-7	Potassium	17400	500	100	ug/L
7782-49-2	Selenium	29.7B	40.0	3.79	ug/L
7440-62-2	Vanadium	13.4B	20.0	3.75	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	271	20.0	5.89	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	334000	100	50.0	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	2580000	25000	5000	ug/L

SM 2320B Alkalinity

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	53.5	1.0	0.34	mg/L CaCO3

SM 2540C TDS

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9870	10.0	7.00	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.430	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.005B	0.010	0.003	mg/L-N

EPA 300.0

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3920	100	21.0	mg/L
14808-79-8	Sulfate	1880	200	79.0	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	1.75J	5	0.322	ug/L
75-09-2	Methylene chloride	1.37J	5	0.102	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	**Acetone**	**2.31J**	**5**	**0.322**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:06	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:06	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	51.1	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:02	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:02	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.43	ug/L	71	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:33	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:32	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:52	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**84.3J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.06J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**48100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.72J**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.42J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7120**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**569000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:52	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**23.0**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**229**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:25	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**51000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 22:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.7**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**11.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**51400**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**4.61J**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7670**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.1**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**248**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	2	10/04/2011 17:10	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**556000**	**2000**	**400**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:05	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**51300**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1990**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:57	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.116**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:53	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:17	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**525**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**564**	**100**	**39.5**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	**MA01MW001**	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**172**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:13	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:26	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 20:45	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 20:45	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	75 - 120
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:49	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 18:49	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.86	ug/L	92	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:27	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:17	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09518B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	**Antimony**	**5.29B**	**60.0**	**3.98**	**ug/L**
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**20.7**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.96B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**61200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**10.2B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7750**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**459000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.24B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**29.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**339**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 16:48	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**64100**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 21:48	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**18.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**12.7**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**58700**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**8.24B**	**15.0**	**2.00**	**ug/L**
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**7620**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**430000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.7**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**316**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 13:58	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**58600**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1790**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:58	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.085**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:54	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:34	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**477**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**524**	**100**	**39.5**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**152**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	**MA01MW003**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:14	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:28	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:27	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	52.9	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	52.8	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.4	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.8	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	50.8	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	55.1	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	52.2	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	53.6	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	52.5	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	49.8	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.6	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.3	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.7	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	56.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.6	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	50.2	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	53.9	1	0.112	ug/L
78-93-3	2-Butanone	41.3	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.5	1	0.090	ug/L
591-78-6	2-Hexanone	43.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	54.0	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	51.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	57.1	5	0.142	ug/L
67-64-1	Acetone	28.9	5	0.322	ug/L
71-43-2	Benzene	52.3	1	0.049	ug/L
108-86-1	Bromobenzene	49.8	1	0.095	ug/L
74-97-5	Bromochloromethane	53.3	1	0.238	ug/L
75-27-4	Bromodichloromethane	54.2	1	0.071	ug/L
75-25-2	Bromoform	58.4	1	0.278	ug/L
74-83-9	Bromomethane	47.4	1	0.276	ug/L
75-15-0	Carbon disulfide	51.6	1	0.190	ug/L
56-23-5	Carbon tetrachloride	53.2	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	58.6	1	0.279	ug/L
67-66-3	Chloroform	49.1	1	0.062	ug/L
74-87-3	Chloromethane	53.1	1	0.076	ug/L
74-95-3	Dibromomethane	54.2	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:27	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	49.0	1	0.088	ug/L
100-41-4	Ethylbenzene	53.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	49.0	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	51.2	1	0.058	ug/L
75-09-2	Methylene chloride	54.8	5	0.102	ug/L
91-20-3	Naphthalene	48.5	1	0.175	ug/L
100-42-5	Styrene	51.3	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.6	1	0.141	ug/L
108-88-3	Toluene	49.3	1	0.078	ug/L
79-01-6	Trichloroethene	51.5	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	50.7	1	0.094	ug/L
75-01-4	Vinyl chloride	50.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	53.4	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.0	1	0.105	ug/L
136777-61-2	m,p-Xylene	104	2	0.099	ug/L
104-51-8	n-Butylbenzene	55.6	1	0.068	ug/L
103-65-1	n-Propylbenzene	53.5	1	0.069	ug/L
95-47-6	o-Xylene	51.9	1	0.077	ug/L
135-98-8	sec-Butylbenzene	54.1	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	53.2	5	0.084	ug/L
98-06-6	tert-Butylbenzene	57.4	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	50.9	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	58.7	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	48.5	ug/L	97	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 19:36	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	2.07	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	2.09	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.94	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	2.16	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.89	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.85	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.70	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.51	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.51	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.42	0.505	0.117	ug/L
2691-41-0	HMX	2.30	0.202	0.035	ug/L
98-95-3	Nitrobenzene	2.04	0.505	0.137	ug/L
121-82-4	RDX	1.78	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 19:36	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**1.21**	**0.505**	**0.202**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.7	ug/L	84	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:29	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.32**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:19	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.51**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:09	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4880**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**504**	**60.0**	**3.98**	**ug/L**
7440-38-2	**Arsenic**	**503**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**495**	**10.0**	**1.59**	**ug/L**
7440-41-7	**Beryllium**	**481**	**5.00**	**0.082**	**ug/L**
7440-43-9	**Cadmium**	**469**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**464**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**466**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**489**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**4850**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**459**	**15.0**	**2.83**	**ug/L**
7439-95-4	**Magnesium**	**67200**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**487**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**502**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**463**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**476**	**40.0**	**3.79**	**ug/L**
7440-22-4	**Silver**	**485**	**10.0**	**0.64**	**ug/L**
7440-23-5	**Sodium**	**492000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:09	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	465	20.0	2.60	ug/L
7440-32-6	Titanium	493	100	1.20	ug/L
7440-62-2	Vanadium	509	20.0	3.75	ug/L
7440-66-6	Zinc	810	20.0	5.89	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 16:57	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	70400	100	50.0	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 21:56	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	5240	200	60.0	ug/L
7440-36-0	Antimony	547	60.0	3.98	ug/L
7440-38-2	Arsenic	562	10.0	3.49	ug/L
7440-39-3	Barium	537	10.0	1.59	ug/L
7440-41-7	Beryllium	526	5.00	0.082	ug/L
7440-43-9	Cadmium	511	5.00	0.20	ug/L
7440-47-3	Chromium	503	10.0	1.00	ug/L
7440-48-4	Cobalt	518	10.0	1.00	ug/L
7440-50-8	Copper	541	10.0	1.69	ug/L
7439-89-6	Iron	5200	100	40.0	ug/L
7439-92-1	Lead	509	15.0	2.83	ug/L
7439-95-4	Magnesium	70500	100	50.0	ug/L
7439-96-5	Manganese	528	15.0	2.00	ug/L
7439-98-7	Molybdenum	536	50.0	3.75	ug/L
7440-02-0	Nickel	517	40.0	0.84	ug/L
7440-09-7	Potassium	19000	500	100	ug/L
7782-49-2	Selenium	546	40.0	3.79	ug/L
7440-22-4	Silver	534	10.0	0.64	ug/L
7440-23-5	Sodium	522000	1000	200	ug/L
7440-28-0	Thallium	511	20.0	2.60	ug/L
7440-32-6	Titanium	518	100	1.20	ug/L
7440-62-2	Vanadium	553	20.0	3.75	ug/L
7440-66-6	Zinc	886	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	**MA01MW003-MS**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 14:06	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**68700**	**100**	**50.0**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:59	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.558**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:56	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.521**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:52	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1690**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3070**	**100**	**39.5**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**469**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:29	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0499**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:48	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	51.8	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.5	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.9	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.7	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	49.0	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.0	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	52.3	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.5	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	50.7	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.5	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	51.7	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	48.4	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.2	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	51.0	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.6	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.4	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	55.6	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	50.1	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	48.9	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	50.6	1	0.112	ug/L
78-93-3	2-Butanone	40.4	5	0.235	ug/L
95-49-8	2-Chlorotoluene	53.7	1	0.090	ug/L
591-78-6	2-Hexanone	44.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	52.8	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	50.1	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	54.2	5	0.142	ug/L
67-64-1	Acetone	27.8	5	0.322	ug/L
71-43-2	Benzene	49.9	1	0.049	ug/L
108-86-1	Bromobenzene	49.5	1	0.095	ug/L
74-97-5	Bromochloromethane	51.2	1	0.238	ug/L
75-27-4	Bromodichloromethane	51.3	1	0.071	ug/L
75-25-2	Bromoform	57.0	1	0.278	ug/L
74-83-9	Bromomethane	47.1	1	0.276	ug/L
75-15-0	Carbon disulfide	49.3	1	0.190	ug/L
56-23-5	Carbon tetrachloride	49.1	1	0.056	ug/L
108-90-7	Chlorobenzene	49.3	1	0.055	ug/L
75-00-3	Chloroethane	56.5	1	0.279	ug/L
67-66-3	Chloroform	46.6	1	0.062	ug/L
74-87-3	Chloromethane	50.3	1	0.076	ug/L
74-95-3	Dibromomethane	51.2	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:48	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	46.4	1	0.088	ug/L
100-41-4	Ethylbenzene	52.5	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	48.9	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	49.9	1	0.058	ug/L
75-09-2	Methylene chloride	51.8	5	0.102	ug/L
91-20-3	Naphthalene	49.1	1	0.175	ug/L
100-42-5	Styrene	50.4	1	0.058	ug/L
127-18-4	Tetrachloroethene	49.4	1	0.141	ug/L
108-88-3	Toluene	49.1	1	0.078	ug/L
79-01-6	Trichloroethene	49.3	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	47.2	1	0.094	ug/L
75-01-4	Vinyl chloride	48.1	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	50.6	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6	1	0.105	ug/L
136777-61-2	m,p-Xylene	102	2	0.099	ug/L
104-51-8	n-Butylbenzene	54.0	1	0.068	ug/L
103-65-1	n-Propylbenzene	52.5	1	0.069	ug/L
95-47-6	o-Xylene	50.6	1	0.077	ug/L
135-98-8	sec-Butylbenzene	53.4	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8	5	0.084	ug/L
98-06-6	tert-Butylbenzene	55.7	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	48.1	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	55.3	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	75 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	49	ug/L	98	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 20:23	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	1.74	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	1.70	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	1.68	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	1.75	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	1.46	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	1.66	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	1.44	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	1.15	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	1.33	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	1.10	0.505	0.117	ug/L
2691-41-0	HMX	1.84	0.202	0.035	ug/L
98-95-3	Nitrobenzene	1.67	0.505	0.137	ug/L
121-82-4	RDX	1.39	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 20:23	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	**Tetryl**	**0.919**	**0.505**	**0.202**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.73	ug/L	86	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:30	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.38**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:20	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**4.41**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:30	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4730**	**200**	**60.0**	**ug/L**
7440-36-0	**Antimony**	**500**	**60.0**	**3.98**	**ug/L**
7440-38-2	**Arsenic**	**497**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**485**	**10.0**	**1.59**	**ug/L**
7440-41-7	**Beryllium**	**471**	**5.00**	**0.082**	**ug/L**
7440-43-9	**Cadmium**	**458**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**456**	**10.0**	**1.00**	**ug/L**
7440-48-4	**Cobalt**	**462**	**10.0**	**1.00**	**ug/L**
7440-50-8	**Copper**	**481**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**4700**	**100**	**40.0**	**ug/L**
7439-92-1	**Lead**	**453**	**15.0**	**2.83**	**ug/L**
7439-95-4	**Magnesium**	**65100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**481**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**495**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**459**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**475**	**40.0**	**3.79**	**ug/L**
7440-22-4	**Silver**	**475**	**10.0**	**0.64**	**ug/L**
7440-23-5	**Sodium**	**486000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 00:30	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	464	20.0	2.60	ug/L
7440-32-6	Titanium	483	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	794	20.0	5.89	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:03	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	69000	100	50.0	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 22:02	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4820	200	60.0	ug/L
7440-36-0	Antimony	493	60.0	3.98	ug/L
7440-38-2	Arsenic	505	10.0	3.49	ug/L
7440-39-3	Barium	488	10.0	1.59	ug/L
7440-41-7	Beryllium	479	5.00	0.082	ug/L
7440-43-9	Cadmium	467	5.00	0.20	ug/L
7440-47-3	Chromium	457	10.0	1.00	ug/L
7440-48-4	Cobalt	462	10.0	1.00	ug/L
7440-50-8	Copper	489	10.0	1.69	ug/L
7439-89-6	Iron	4780	100	40.0	ug/L
7439-92-1	Lead	455	15.0	2.83	ug/L
7439-95-4	Magnesium	67300	100	50.0	ug/L
7439-96-5	Manganese	480	15.0	2.00	ug/L
7439-98-7	Molybdenum	483	50.0	3.75	ug/L
7440-02-0	Nickel	460	40.0	0.84	ug/L
7440-09-7	Potassium	17700	500	100	ug/L
7782-49-2	Selenium	481	40.0	3.79	ug/L
7440-22-4	Silver	484	10.0	0.64	ug/L
7440-23-5	Sodium	490000	1000	200	ug/L
7440-28-0	Thallium	460	20.0	2.60	ug/L
7440-32-6	Titanium	473	100	1.20	ug/L
7440-62-2	Vanadium	503	20.0	3.75	ug/L
7440-66-6	Zinc	814	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	**MA01MW003-MSD**	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 16:08	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**69000**	**100**	**50.0**	**ug/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:01	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.560**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:57	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.521**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 19:09	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1680**	**50.0**	**10.5**	**mg/L**
14808-79-8	**Sulfate**	**3040**	**100**	**39.5**	**mg/L**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**471**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:30	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0497**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280405	**TB-1**	Water	09/27/2011 16:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:30	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280405	**TB-1**	Water	09/27/2011 16:33	09/28/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:30	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	75 - 120
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	85 - 115
2037-26-5	Toluene d8	50	51.5	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	**MA01MW003-DUP**	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1740**	**10.0**	**10.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**169**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:33	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:33	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	47.2	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 21:10	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 21:10	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.57	ug/L	78	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:37	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:35	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:00	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**9.84B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.3**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**67600**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**209**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**14.0B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.43B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**8540**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**117**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:00	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**24.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**288**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	25	10/04/2011 17:35	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1580000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:48	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**114000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**9.44B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**73300**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**188**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**15.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**2.14B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**9280**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**132**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:01	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**25.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**301**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	25	10/04/2011 17:18	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1630000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:13	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**119000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5620**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:46	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.71**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:34	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.035**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	**MA02 MW001D**	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:27	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1640**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1860**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**142**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:54	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:31	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:54	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 21:54	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	85 - 115
2037-26-5	Toluene d8	50	52.3	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 22:59	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.143U	0.515	0.143	ug/L
99-65-0	1,3-Dinitrobenzene	0.260U	1.03	0.260	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.312U	1.03	0.312	ug/L
121-14-2	2,4-Dinitrotoluene	0.129U	0.515	0.129	ug/L
606-20-2	2,6-Dinitrotoluene	0.111U	0.515	0.111	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.129U	0.515	0.129	ug/L
88-72-2	2-Nitrotoluene	0.092U	0.515	0.092	ug/L
99-08-1	3-Nitrotoluene	0.110U	0.515	0.110	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111U	0.515	0.111	ug/L
99-99-0	4-Nitrotoluene	0.120U	0.515	0.120	ug/L
2691-41-0	HMX	0.036U	0.206	0.036	ug/L
98-95-3	Nitrobenzene	0.140U	0.515	0.140	ug/L
121-82-4	RDX	0.068U	0.206	0.068	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 22:59	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.206U	0.515	0.206	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.06	1.78	ug/L	86	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:40	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:38	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:07	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**78.9B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**10.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.31B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**25.0**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**69100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**210**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**14.2B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.82B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**8720**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**122**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:07	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**25.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**290**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	25	10/04/2011 17:43	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1630000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 17:55	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**116000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:08	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**3.85B**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**9.39B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**23.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**73800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**188**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**15.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.58B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**9230**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**133**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:08	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**25.6**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**303**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	25	10/04/2011 17:27	BNB	466585

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**1600000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:30	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**122000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**5750**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:48	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.71**	**0.050**	**0.013**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:35	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.040**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	**FD-1**	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:44	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**1620**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1940**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**144**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:55	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	**Chromium VI**	**6.00B**	**10.0**	**3.30**	**ug/L**

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:32	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0006B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280409	**TB-2**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:15	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280409	**TB-2**	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:15	EDS	466398

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	85 - 115
2037-26-5	Toluene d8	50	51.9	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 13:45	SLR	466441

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 13:45	SLR	466441

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.7	ug/L	91	75 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	85 - 115
2037-26-5	Toluene d8	50	51.4	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 23:46	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/05/2011 23:46	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.37	ug/L	**68***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:46	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:41	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**11.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.68B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**9550**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**78.0**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**30.4B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**2570**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**472000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**8.39B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**18.4B**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:02	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**14700**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:15	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**10.8**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**5.14B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**9680**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**75.9**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**31.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**2470**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**481000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.51B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**8.64B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**18.4B**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:37	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**14700**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1310**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:40	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:32	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.013**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:02	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**212**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**396**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**333**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	**MWQ-23**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:48	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:38	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:51	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 22:51	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	75 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 00:33	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 00:33	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.42	ug/L	70	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:49	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08433B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:48	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08023B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**23.0**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.21B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**8.23B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**35500**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.56B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**4.78B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6040**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**6.15B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**321000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**26.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**276**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:10	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39300**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:23	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**23.4**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**9.63B**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**36100**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.81B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.07B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6150**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**5.03B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**323000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.52B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**32.5**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**305**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:44	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39900**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1130**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:44	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:35	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.339**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:55	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**251**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**329**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**200**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	**MA01-MW004**	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:39	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:12	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:12	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	75 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	85 - 115
2037-26-5	Toluene d8	50	51.5	ug/L	103	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 01:20	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.145U	0.521	0.145	ug/L
99-65-0	1,3-Dinitrobenzene	0.263U	1.04	0.263	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.316U	1.04	0.316	ug/L
121-14-2	2,4-Dinitrotoluene	0.130U	0.521	0.130	ug/L
606-20-2	2,6-Dinitrotoluene	0.113U	0.521	0.113	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.130U	0.521	0.130	ug/L
88-72-2	2-Nitrotoluene	0.093U	0.521	0.093	ug/L
99-08-1	3-Nitrotoluene	0.111U	0.521	0.111	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.113U	0.521	0.113	ug/L
99-99-0	4-Nitrotoluene	0.121U	0.521	0.121	ug/L
2691-41-0	HMX	0.036U	0.208	0.036	ug/L
98-95-3	Nitrobenzene	0.142U	0.521	0.142	ug/L
121-82-4	RDX	0.069U	0.208	0.069	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 01:20	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.208U	0.521	0.208	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.08	1.26	ug/L	**60***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A Dissolved	1	10/03/2011 16:52	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09305B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466325	SW-846 7470A	1	10/03/2011 16:51	AWG	466468

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**16.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**2.47B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.2**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**35800**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**5.45B**	**15.0**	**2.00**	**ug/L**
7439-98-7	**Molybdenum**	**5.93B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6640**	**500**	**100**	**ug/L**
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**531000**	**1000**	**200**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/04/2011 01:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**25.9**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**210**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466323	SW-846 3010A	1	10/05/2011 18:18	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39000**	**100**	**50.0**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/03/2011 23:31	BNB	466454

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.1**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	**Chromium**	**1.12B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**10.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**36100**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7439-98-7	**Molybdenum**	**6.66B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**6710**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**4.49B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-23-5	**Sodium**	**533000**	**1000**	**200**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**1.37B**	**100**	**1.20**	**ug/L**
7440-62-2	**Vanadium**	**27.4**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**219**	**20.0**	**5.89**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/30/2011 12:40	466324	SW-846 3005 Dissolved	1	10/05/2011 15:55	BNB	466535

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**39100**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**1720**	**10.0**	**10.0**	**mg/L**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:45	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:37	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.207**	**0.010**	**0.003**	**mg/L-N**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 21:12	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**431**	**20.0**	**4.20**	**mg/L**
14808-79-8	**Sulfate**	**514**	**40.0**	**15.8**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**180**	**1.0**	**0.34**	**mg/L CaCO3**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	**MA01-MW002**	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:40	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280413	**TB-4**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:32	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	5	0.322	ug/L
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280413	**TB-4**	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/02/2011 23:32	SLR	466401

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	75 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	85 - 115
2037-26-5	Toluene d8	50	50.9	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:35	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**5.42**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:35	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	46.4	ug/L	93	85 - 115
2037-26-5	Toluene d8	50	52.6	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:07	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:07	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.49	ug/L	74	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:15	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:16	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 17:30	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**110B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.2**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.58B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.29B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**283000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**13.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**1.22B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17100**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**21.6B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 17:30	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**4.00B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**347**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 13:27	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2170000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 16:53	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**303000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.49B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 15:33	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**4.75B**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**15.0**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.40B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**2.38B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**17.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**283000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**13.3B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**18300**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**22.4B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**6.46B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 15:33	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**366**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 11:04	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2480000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 15:30	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**339000**	**100**	**50.0**	**ug/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9500**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	10/01/2011 11:03	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.511**	**0.020**	**0.005**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:32	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	**M114MW004**	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 18:50	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	**Sulfate**	**1630**	**200**	**79.0**	**mg/L**

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	10/07/2011 09:26	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3970**	**200**	**42.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**59.3**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:53	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:06	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:56	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**1.41J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 12:56	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**0.891J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	46.8	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:54	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 02:54	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.57	ug/L	78	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:18	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.08165J**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:20	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:15	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**100.0J**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**17.4**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.16J**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**8.46J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**47.1J**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**236000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**17.8J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**8.97J**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.3J**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:15	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**14.8J**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**394**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:19	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2080000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:25	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**259000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:05	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	**Arsenic**	**3.83J**	**10.0**	**3.49**	**ug/L**
7440-39-3	**Barium**	**16.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.19J**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.17J**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.6**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**257000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**18.8J**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**9.23J**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**17700**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**30.1J**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**10.5J**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:05	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**413**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:20	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2080000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:01	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**285000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7640**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 10:50	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.899**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:36	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	**M114MW001**	Water	09/30/2011 12:36	10/01/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 19:42	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3060**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1810**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.4**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:55	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:08	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.00055U	0.0050	0.00055	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 13:17	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.50J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**1.04J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010503	**TB-5**	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 13:17	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	75 - 120
1868-53-7	Dibromofluoromethane	50	46.9	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	52.1	ug/L	104	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.9	ug/L	96	70 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:37	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.38J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:37	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**3.55J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	47.1	ug/L	94	85 - 115
2037-26-5	Toluene d8	50	53.1	ug/L	106	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 03:41	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 03:41	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	2.1	ug/L	104	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:21	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:23	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.10037B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:22	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**2.23B**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	Copper	1.69U	10.0	1.69	ug/L
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	**Nickel**	**1.12B**	**40.0**	**0.84**	**ug/L**
7440-09-7	Potassium	100U	500	100	ug/L
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	**Silver**	**0.67B**	**10.0**	**0.64**	**ug/L**
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:22	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	**Zinc**	**13.6B**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 14:26	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	50.0U	100	50.0	ug/L
7439-96-5	**Manganese**	**2.10B**	**15.0**	**2.00**	**ug/L**
7440-23-5	Sodium	200U	1000	200	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:41	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	Barium	1.59U	10.0	1.59	ug/L
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	Cadmium	0.20U	5.00	0.20	ug/L
7440-47-3	Chromium	1.00U	10.0	1.00	ug/L
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	Copper	1.69U	10.0	1.69	ug/L
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	Magnesium	50.0U	100	50.0	ug/L
7439-98-7	Molybdenum	3.75U	50.0	3.75	ug/L
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	Potassium	100U	500	100	ug/L
7782-49-2	Selenium	3.79U	40.0	3.79	ug/L
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	Vanadium	3.75U	20.0	3.75	ug/L
7440-66-6	Zinc	5.89U	20.0	5.89	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 12:28	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	50.0U	100	50.0	ug/L
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L
7440-23-5	Sodium	200U	1000	200	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7.00U	10.0	7.00	mg/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:48	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:33	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/06/2011 20:35	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.104**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	**EB-1**	Water	10/03/2011 08:00	10/04/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:30	DJH	466580

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.34U	1.0	0.34	mg/L CaCO3

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:11	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:19	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**0.909J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:19	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	45.5	ug/L	91	85 - 115
2037-26-5	Toluene d8	50	52.5	ug/L	105	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 04:28	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 04:28	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.23	ug/L	**61***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:04	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:05	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.10199B**	**0.20**	**0.075**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:29	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**85.3B**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**17.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.37B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**4.92B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**60.5B**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**255000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**23.7B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**40.6**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16500**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**23.2B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.01B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:29	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**11.0B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**239**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:34	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2100000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:31	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**251000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**3.12B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:48	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**15.5**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.12B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**3.73B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.8**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**258000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**22.1B**	**50.0**	**3.75**	**ug/L**
7440-02-0	**Nickel**	**39.4B**	**40.0**	**0.84**	**ug/L**
7440-09-7	**Potassium**	**16800**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**20.1B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**10.6B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:48	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**234**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:35	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2220000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:08	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**267000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**7610**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:49	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.245**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:35	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.003B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	**M114MW002**	Water	10/03/2011 09:32	10/04/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 20:53	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3130**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1580**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**79.8**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:12	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/12/2011 16:25	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:41	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**1.75J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/07/2011 14:41	EDS	466778

CAS#	Parameter	Result	RDL	MDL	Units
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	**Methylene chloride**	**1.37J**	**5**	**0.102**	**ug/L**
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	75 - 120
1868-53-7	Dibromofluoromethane	50	45.9	ug/L	92	85 - 115
2037-26-5	Toluene d8	50	51.2	ug/L	102	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	70 - 120

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 05:15	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
99-35-4	1,3,5-Trinitrobenzene	0.140U	0.505	0.140	ug/L
99-65-0	1,3-Dinitrobenzene	0.255U	1.01	0.255	ug/L
118-96-7	2,4,6-Trinitrotoluene	0.306U	1.01	0.306	ug/L
121-14-2	2,4-Dinitrotoluene	0.126U	0.505	0.126	ug/L
606-20-2	2,6-Dinitrotoluene	0.109U	0.505	0.109	ug/L
355-72-78-2	2-Amino-4,6-dinitrotoluene	0.126U	0.505	0.126	ug/L
88-72-2	2-Nitrotoluene	0.090U	0.505	0.090	ug/L
99-08-1	3-Nitrotoluene	0.108U	0.505	0.108	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109U	0.505	0.109	ug/L
99-99-0	4-Nitrotoluene	0.117U	0.505	0.117	ug/L
2691-41-0	HMX	0.035U	0.202	0.035	ug/L
98-95-3	Nitrobenzene	0.137U	0.505	0.137	ug/L
121-82-4	RDX	0.067U	0.202	0.067	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 8330A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466485	SW-846 8330A	1	10/06/2011 05:15	BMR	466694

CAS#	Parameter	Result	RDL	MDL	Units
479-45-8	Tetryl	0.202U	0.505	0.202	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
528-29-0	1,2-Dinitrobenzene	2.02	1.36	ug/L	**67***	70 - 130

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A Dissolved	1	10/05/2011 13:24	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.09168B**	**0.20**	**0.075**	**ug/L**

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466512	SW-846 7470A	1	10/05/2011 13:26	DJH	466600

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.075U	0.20	0.075	ug/L

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:36	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**200**	**200**	**60.0**	**ug/L**
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**14.3**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.53B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**2.88B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**13.3**	**10.0**	**1.69**	**ug/L**
7439-89-6	**Iron**	**162**	**100**	**40.0**	**ug/L**
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**270000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**9.56B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**17000**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**29.6B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	**Titanium**	**2.45B**	**100**	**1.20**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/06/2011 18:36	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-62-2	**Vanadium**	**12.1B**	**20.0**	**3.75**	**ug/L**
7440-66-6	**Zinc**	**276**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	25	10/10/2011 14:41	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2540000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466511	SW-846 3010A	1	10/10/2011 17:37	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**317000**	**100**	**50.0**	**ug/L**
7439-96-5	**Manganese**	**6.87B**	**15.0**	**2.00**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:55	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	60.0U	200	60.0	ug/L
7440-36-0	Antimony	3.98U	60.0	3.98	ug/L
7440-38-2	Arsenic	3.49U	10.0	3.49	ug/L
7440-39-3	**Barium**	**11.9**	**10.0**	**1.59**	**ug/L**
7440-41-7	Beryllium	0.082U	5.00	0.082	ug/L
7440-43-9	**Cadmium**	**1.23B**	**5.00**	**0.20**	**ug/L**
7440-47-3	**Chromium**	**1.33B**	**10.0**	**1.00**	**ug/L**
7440-48-4	Cobalt	1.00U	10.0	1.00	ug/L
7440-50-8	**Copper**	**15.1**	**10.0**	**1.69**	**ug/L**
7439-89-6	Iron	40.0U	100	40.0	ug/L
7439-92-1	Lead	2.83U	15.0	2.83	ug/L
7439-95-4	**Magnesium**	**272000**	**100**	**50.0**	**ug/L**
7439-98-7	**Molybdenum**	**8.60B**	**50.0**	**3.75**	**ug/L**
7440-02-0	Nickel	0.84U	40.0	0.84	ug/L
7440-09-7	**Potassium**	**17400**	**500**	**100**	**ug/L**
7782-49-2	**Selenium**	**29.7B**	**40.0**	**3.79**	**ug/L**
7440-22-4	Silver	0.64U	10.0	0.64	ug/L
7440-28-0	Thallium	2.60U	20.0	2.60	ug/L
7440-32-6	Titanium	1.20U	100	1.20	ug/L
7440-62-2	**Vanadium**	**13.4B**	**20.0**	**3.75**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/06/2011 16:55	BNB	466696

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**271**	**20.0**	**5.89**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	25	10/10/2011 12:43	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**2580000**	**25000**	**5000**	**ug/L**

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 11:35	466510	SW-846 3005 Dissolved	1	10/10/2011 16:16	BNB	466862

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**334000**	**100**	**50.0**	**ug/L**
7439-96-5	Manganese	2.00U	15.0	2.00	ug/L

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**9870**	**10.0**	**7.00**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:04	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.430**	**0.010**	**0.003**	**mg/L-N**

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:41	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	**Nitrite**	**0.005B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	**M114MW003**	Water	10/03/2011 11:46	10/04/2011 09:00

EPA 300.0

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 21:45	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**3920**	**100**	**21.0**	**mg/L**
14808-79-8	**Sulfate**	**1880**	**200**	**79.0**	**mg/L**

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	**Total Alkalinity**	**53.5**	**1.0**	**0.34**	**mg/L CaCO3**

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:13	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:15	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	**Total Cyanide**	**0.0009B**	**0.0050**	**0.0006**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:58	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	1	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	1	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	1	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	1	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	1	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	1	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	1	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	1	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	1	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	1	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	1	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	1	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	1	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	1	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	1	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	1	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	1	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	1	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	1	0.058	ug/L
594-20-7	2,2-Dichloropropane	0.112U	1	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
95-49-8	2-Chlorotoluene	0.090U	1	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	1	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	1	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**2.31J**	**5**	**0.322**	**ug/L**
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-86-1	Bromobenzene	0.095U	1	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	1	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	1	0.071	ug/L
75-25-2	Bromoform	0.278U	1	0.278	ug/L
74-83-9	Bromomethane	0.276U	1	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	1	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	1	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	1	0.055	ug/L
75-00-3	Chloroethane	0.279U	1	0.279	ug/L
67-66-3	Chloroform	0.062U	1	0.062	ug/L
74-87-3	Chloromethane	0.076U	1	0.076	ug/L
74-95-3	Dibromomethane	0.197U	1	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	1	0.088	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	1	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	1	0.058	ug/L
75-09-2	Methylene chloride	0.102U	5	0.102	ug/L
91-20-3	Naphthalene	0.175U	1	0.175	ug/L
100-42-5	Styrene	0.058U	1	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	1	0.141	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010507	**TB-6**	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 10:58	CGC	466593

CAS#	Parameter	Result	RDL	MDL	Units
79-01-6	Trichloroethene	0.094U	1	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	1	0.094	ug/L
75-01-4	Vinyl chloride	0.104U	1	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	1	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	1	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	2	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	1	0.068	ug/L
103-65-1	n-Propylbenzene	0.069U	1	0.069	ug/L
95-47-6	o-Xylene	0.077U	1	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	1	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	1	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	1	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	1	0.068	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	75 - 120
1868-53-7	Dibromofluoromethane	50	46.3	ug/L	93	85 - 115
2037-26-5	Toluene d8	50	53	ug/L	106	85 - 120
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	70 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398	**Client ID**	MB466398			LCS466398			LCSD466398			
Prep Batch N/A	**GCAL ID**	992648			992649			992650			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	1.59J	0.322	50.0	56.5	113	40 - 140	59.4	119	5	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	50.5	101	65 - 130	50.5	101	0	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	50.4	101	75 - 120	50.4	101	0	30
75-25-2	Bromoform	0.278U	0.278	50.0	50.1	100	70 - 130	50.9	102	2	30
74-83-9	Bromomethane	0.276U	0.276	50.0	48.7	97	30 - 145	50.5	101	4	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	47.9	96	35 - 160	46.9	94	2	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	53.3	107	65 - 140	51.1	102	4	30
75-00-3	Chloroethane	0.279U	0.279	50.0	60.6	121	60 - 135	60.6	121	0	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	102	102	75 - 130	99.0	99	3	30
67-66-3	Chloroform	0.062U	0.062	50.0	50.7	101	65 - 135	50.2	100	1	30
74-87-3	Chloromethane	0.076U	0.076	50.0	56.6	113	40 - 125	54.0	108	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	48.9	98	75 - 125	49.7	99	2	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	48.6	97	30 - 155	45.8	92	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	55.3	111	70 - 135	53.6	107	3	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	48.4	97	70 - 130	47.5	95	2	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.0	106	70 - 125	52.5	105	0.9	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	55.8	112	60 - 140	55.1	110	1	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	54.0	108	55 - 140	53.8	108	0.4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.3	105	75 - 125	52.9	106	1	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	55.0	110	70 - 130	53.4	107	3	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	51.3	103	55 - 140	50.7	101	1	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	49.6	99	75 - 125	48.2	96	3	30
591-78-6	2-Hexanone	0.302U	0.302	50.0	52.0	104	55 - 130	53.7	107	3	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.8	106	75 - 125	51.3	103	3	30
78-93-3	2-Butanone	0.235U	0.235	50.0	52.2	104	30 - 150	55.2	110	6	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	48.1	96	60 - 135	49.8	100	3	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	53.3	107	70 - 130	50.7	101	5	30
100-42-5	Styrene	0.058U	0.058	50.0	52.0	104	65 - 135	52.0	104	0	30
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	53.2	106	45 - 150	50.2	100	6	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.7	103	80 - 130	50.3	101	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	48.8	98	65 - 130	49.4	99	1	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	57.2	114	65 - 135	56.8	114	0.7	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	54.5	109	65 - 130	52.3	105	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398		**Client ID**	MB466398			LCS466398			LCSD466398		
Prep Batch N/A		**GCAL ID**	992648			992649			992650		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	49.2	98	75 - 125	48.9	98	0.6	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	51.6	103	60 - 145	49.8	100	4	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.9	94	75 - 125	47.7	95	2	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	52.8	106	75 - 130	51.0	102	3	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	53.3	107	75 - 130	51.4	103	4	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	54.5	109	50 - 145	52.8	106	3	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.1	104	80 - 120	51.7	103	0.8	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	52.9	106	50 - 130	53.9	108	2	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	49.0	98	80 - 120	48.8	98	0.4	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	53.7	107	65 - 125	55.3	111	3	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	55.4	111	75 - 130	53.1	106	4	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	55.3	111	70 - 135	53.4	107	3	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	53.9	108	75 - 130	51.9	104	4	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	50.5	101	75 - 125	50.3	101	0.4	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.2	104	75 - 125	51.3	103	2	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.4	103	75 - 125	50.0	100	3	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	51.7	103	75 - 130	50.6	101	2	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	53.8	108	70 - 130	52.0	104	3	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	54.8	110	70 - 125	52.8	106	4	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	53.3	107	75 - 125	51.7	103	3	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	52.4	105	75 - 125	52.2	104	0.4	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	51.2	102	70 - 135	49.6	99	3	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.9	104	70 - 120	51.7	103	0.4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	59.8	120	50 - 140	59.0	118	1	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.2	106	55 - 140	55.8	112	5	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.4	111	55 - 140	56.3	113	2	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	51.9	104	70 - 130	50.5	101	3	30
71-43-2	Benzene		0.049U	0.049	50.0	52.8	106	80 - 120	51.8	104	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.0	102	70 - 125	49.5	99	3	30
108-88-3	Toluene		0.078U	0.078	50.0	53.7	107	75 - 120	51.9	104	3	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.2	102	80 - 120	50.8	102	0.8	30
Surrogate												
460-00-4	4-Bromofluorobenzene		51.7	103	50	49.5	99	75 - 120	50.1	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch 466398		**Client ID**	MB466398			LCS466398			LCSD466398		
Prep Batch N/A		**GCAL ID**	992648			992649			992650		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 13:03			10/02/2011 11:44			10/02/2011 12:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1868-53-7	Dibromofluoromethane		48.2	96	50	50.7	101	85 - 115	50.3	101		
2037-26-5	Toluene d8		52.6	105	50	50.6	101	85 - 120	50.4	101		
17060-07-0	1,2-Dichloroethane-d4		46.9	94	50	48.9	98	70 - 120	49.3	99		

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	44.9	90	40 - 140	45.0	90	0.2	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	52.3	105	65 - 130	51.0	102	3	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	50.6	101	75 - 120	49.1	98	3	30
75-25-2	Bromoform		0.278U	0.278	50.0	57.4	115	70 - 130	57.7	115	0.5	30
74-83-9	Bromomethane		0.276U	0.276	50.0	50.9	102	30 - 145	50.6	101	0.6	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	48.7	97	35 - 160	47.2	94	3	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.9	98	65 - 140	47.1	94	4	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.7	103	60 - 135	48.4	97	7	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	104	104	75 - 130	103	103	1	30
67-66-3	Chloroform		0.062U	0.062	50.0	46.9	94	65 - 135	45.9	92	2	30
74-87-3	Chloromethane		0.076U	0.076	50.0	48.8	98	40 - 125	47.3	95	3	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	50.1	100	75 - 125	49.6	99	1	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	45.4	91	30 - 155	44.5	89	2	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	48.1	96	70 - 135	46.5	93	3	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	46.3	93	70 - 130	45.6	91	2	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	49.6	99	70 - 125	47.7	95	4	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	46.8	94	60 - 140	45.8	92	2	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	48.9	98	55 - 140	47.3	95	3	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	50.8	102	75 - 125	49.6	99	2	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	54.7	109	70 - 130	53.7	107	2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	54.6	109	55 - 140	53.7	107	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
100-41-4	Ethylbenzene	0.180U	0.180		50.0	53.8	108	75 - 125	53.2	106	1	30
591-78-6	2-Hexanone	0.302U	0.302		50.0	50.6	101	55 - 130	50.8	102	0.4	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058		50.0	50.6	101	75 - 125	50.0	100	1	30
78-93-3	2-Butanone	0.235U	0.235		50.0	48.3	97	30 - 150	47.8	96	1	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142		50.0	54.1	108	60 - 135	54.4	109	0.6	30
103-65-1	n-Propylbenzene	0.069U	0.069		50.0	52.5	105	70 - 130	50.7	101	3	30
100-42-5	Styrene	0.058U	0.058		50.0	52.1	104	65 - 135	51.9	104	0.4	30
127-18-4	Tetrachloroethene	0.141U	0.141		50.0	51.5	103	45 - 150	50.5	101	2	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	52.4	105	80 - 130	52.5	105	0.2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	47.7	95	65 - 130	48.0	96	0.6	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	55.9	112	65 - 135	53.5	107	4	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	48.6	97	65 - 130	47.1	94	3	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	51.9	104	75 - 125	52.0	104	0.2	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	44.4	89	60 - 145	42.8	86	4	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	50.6	101	75 - 125	50.0	100	1	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	51.3	103	75 - 130	49.8	100	3	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	55.0	110	75 - 130	53.7	107	2	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	48.2	96	50 - 145	46.4	93	4	30
95-47-6	o-Xylene	0.077U	0.077		50.0	52.9	106	80 - 120	52.0	104	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	48.8	98	50 - 130	49.0	98	0.4	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	54.8	110	80 - 120	54.5	109	0.5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	50.4	101	65 - 125	50.1	100	0.6	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	50.4	101	75 - 130	49.0	98	3	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	47.7	95	70 - 135	46.7	93	2	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	51.6	103	75 - 130	50.3	101	3	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	52.2	104	75 - 125	52.0	104	0.4	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	47.9	96	75 - 125	47.1	94	2	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	52.4	105	75 - 125	50.3	101	4	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	51.4	103	75 - 130	50.3	101	2	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	54.2	108	70 - 130	52.4	105	3	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	53.7	107	70 - 125	52.4	105	2	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	49.9	100	75 - 125	48.7	97	2	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	48.5	97	75 - 125	47.4	95	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MB466401			LCS466401			LCSD466401		
Prep Batch N/A		**GCAL ID**	992654			992655			992656		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/02/2011 20:07			10/02/2011 19:04			10/02/2011 19:25		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	54.0	108	70 - 135	51.8	104	4	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	50.5	101	70 - 120	49.2	98	3	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	51.2	102	50 - 140	47.7	95	7	30
91-20-3	Naphthalene		0.175U	0.175	50.0	50.8	102	55 - 140	50.3	101	1	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	54.8	110	55 - 140	53.4	107	3	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.1	96	70 - 130	46.6	93	3	30
71-43-2	Benzene		0.049U	0.049	50.0	49.8	100	80 - 120	48.8	98	2	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.3	103	70 - 125	50.7	101	1	30
108-88-3	Toluene		0.078U	0.078	50.0	49.4	99	75 - 120	49.2	98	0.4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	49.5	99	80 - 120	49.7	99	0.4	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.7	99	50	53.5	107	75 - 120	53	106		
1868-53-7	Dibromofluoromethane		48.3	97	50	49.1	98	85 - 115	49	98		
2037-26-5	Toluene d8		52	104	50	50.6	101	85 - 120	50.7	101		
17060-07-0	1,2-Dichloroethane-d4		46.6	93	50	46.3	93	70 - 120	46.7	93		

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	52.9	106	80 - 130	51.8	104	2	30
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	52.8	106	65 - 130	50.5	101	4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	52.4	105	65 - 130	51.9	104	1	30
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	51.8	104	75 - 125	51.7	103	0.2	30
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	51.0	102	70 - 135	49.0	98	4	30
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	50.8	102	70 - 130	49.0	98	4	30
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	55.1	110	75 - 130	52.3	105	5	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	52.0	104	55 - 140	52.5	105	1	30
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	52.2	104	75 - 125	50.7	101	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138		50.0	53.6	107	65 - 135	54.5	109	2	30
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080		50.0	52.5	105	75 - 130	51.7	103	2	30
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082		50.0	49.8	100	50 - 130	48.4	97	3	30
106-93-4	1,2-Dibromoethane	0.00	0.169		50.0	53.2	106	80 - 120	53.2	106	0	30
95-50-1	1,2-Dichlorobenzene	0.00	0.086		50.0	51.6	103	70 - 120	51.0	102	1	30
107-06-2	1,2-Dichloroethane	0.00	0.121		50.0	52.3	105	70 - 130	49.6	99	5	30
78-87-5	1,2-Dichloropropane	0.00	0.114		50.0	52.7	105	75 - 125	51.4	103	2	30
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053		50.0	56.6	113	75 - 130	55.6	111	2	30
541-73-1	1,3-Dichlorobenzene	0.00	0.080		50.0	50.6	101	65 - 130	50.1	100	1	30
142-28-9	1,3-Dichloropropane	0.00	0.113		50.0	52.3	105	75 - 125	52.3	105	0	30
106-46-7	1,4-Dichlorobenzene	0.00	0.058		50.0	50.2	100	65 - 130	48.9	98	3	30
594-20-7	2,2-Dichloropropane	0.00	0.112		50.0	53.9	108	70 - 135	50.6	101	6	30
78-93-3	2-Butanone	0.00	0.235		50.0	41.3	83	30 - 150	40.4	81	2	30
95-49-8	2-Chlorotoluene	0.00	0.090		50.0	53.5	107	75 - 125	53.7	107	0.4	30
591-78-6	2-Hexanone	0.00	0.302		50.0	43.7	87	55 - 130	44.0	88	0.7	30
106-43-4	4-Chlorotoluene	0.00	0.046		50.0	54.0	108	75 - 130	52.8	106	2	30
99-87-6	4-Isopropyltoluene	0.00	0.175		50.0	51.1	102	75 - 130	50.1	100	2	30
108-10-1	4-Methyl-2-pentanone	0.00	0.142		50.0	57.1	114	60 - 135	54.2	108	5	30
67-64-1	Acetone	0.00	0.322		50.0	28.9	58	40 - 140	27.8	56	4	30
71-43-2	Benzene	0.00	0.049		50.0	52.3	105	80 - 120	49.9	100	5	30
108-86-1	Bromobenzene	0.00	0.095		50.0	49.8	100	75 - 125	49.5	99	0.6	30
74-97-5	Bromochloromethane	0.00	0.238		50.0	53.3	107	65 - 130	51.2	102	4	30
75-27-4	Bromodichloromethane	0.00	0.071		50.0	54.2	108	75 - 120	51.3	103	5	30
75-25-2	Bromoform	0.00	0.278		50.0	58.4	117	70 - 130	57.0	114	2	30
74-83-9	Bromomethane	0.00	0.276		50.0	47.4	95	30 - 145	47.1	94	0.6	30
75-15-0	Carbon disulfide	0.00	0.190		50.0	51.6	103	35 - 160	49.3	99	5	30
56-23-5	Carbon tetrachloride	0.00	0.056		50.0	53.2	106	65 - 140	49.1	98	8	30
108-90-7	Chlorobenzene	0.00	0.055		50.0	49.3	99	80 - 120	49.3	99	0	30
75-00-3	Chloroethane	0.00	0.279		50.0	58.6	117	60 - 135	56.5	113	4	30
67-66-3	Chloroform	0.00	0.062		50.0	49.1	98	65 - 135	46.6	93	5	30
74-87-3	Chloromethane	0.00	0.076		50.0	53.1	106	40 - 125	50.3	101	5	30
74-95-3	Dibromomethane	0.00	0.197		50.0	54.2	108	75 - 125	51.2	102	6	30
75-71-8	Dichlorodifluoromethane	0.00	0.088		50.0	49.0	98	30 - 155	46.4	93	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466401		**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch N/A		**GCAL ID**	21109280402			21109280403			21109280404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	10/02/2011 20:45			10/02/2011 21:27			10/02/2011 21:48		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.00	0.180	50.0	53.5	107	75 - 125	52.5	105	2	30
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	49.0	98	50 - 140	48.9	98	0.2	30
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	51.2	102	75 - 125	49.9	100	3	30
75-09-2	Methylene chloride		0.00	0.102	50.0	54.8	110	55 - 140	51.8	104	6	30
91-20-3	Naphthalene		0.00	0.175	50.0	48.5	97	55 - 140	49.1	98	1	30
100-42-5	Styrene		0.00	0.058	50.0	51.3	103	65 - 135	50.4	101	2	30
127-18-4	Tetrachloroethene		0.00	0.141	50.0	49.6	99	45 - 150	49.4	99	0.4	30
108-88-3	Toluene		0.00	0.078	50.0	49.3	99	75 - 120	49.1	98	0.4	30
79-01-6	Trichloroethene		0.00	0.094	50.0	51.5	103	70 - 125	49.3	99	4	30
75-69-4	Trichlorofluoromethane		0.00	0.094	50.0	50.7	101	60 - 145	47.2	94	7	30
75-01-4	Vinyl chloride		0.00	0.104	50.0	50.1	100	50 - 145	48.1	96	4	30
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	53.4	107	70 - 125	50.6	101	5	30
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	55.0	110	70 - 130	53.6	107	3	30
136777-61-2	m,p-Xylene		0.00	0.099	100	104	104	75 - 130	102	102	2	30
104-51-8	n-Butylbenzene		0.00	0.068	50.0	55.6	111	70 - 135	54.0	108	3	30
103-65-1	n-Propylbenzene		0.00	0.069	50.0	53.5	107	70 - 130	52.5	105	2	30
95-47-6	o-Xylene		0.00	0.077	50.0	51.9	104	80 - 120	50.6	101	3	30
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	54.1	108	70 - 125	53.4	107	1	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.00	0.084	50.0	53.2	106	65 - 125	50.8	102	5	30
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	57.4	115	70 - 130	55.7	111	3	30
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	50.9	102	60 - 140	48.1	96	6	30
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	58.7	117	55 - 140	55.3	111	6	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	50.6	101	75 - 120	51.4	103		
1868-53-7	Dibromofluoromethane		48.6	97	50	50.3	101	85 - 115	49.7	99		
2037-26-5	Toluene d8		52.1	104	50	48.5	97	85 - 120	49	98		
17060-07-0	1,2-Dichloroethane-d4		47.7	95	50	50.3	101	70 - 120	48.3	97		

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441	**Client ID**	MB466441	LCS466441
Prep Batch N/A	**GCAL ID**	992820	992821
	Sample Type	Method Blank	LCS
	Analytical Date	10/03/2011 08:40	10/03/2011 07:59
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	51.4	103	40 - 140
74-97-5	Bromochloromethane	0.238U	0.238	50.0	52.7	105	65 - 130
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	53.0	106	75 - 120
75-25-2	Bromoform	0.278U	0.278	50.0	52.6	105	70 - 130
74-83-9	Bromomethane	0.276U	0.276	50.0	48.1	96	30 - 145
75-15-0	Carbon disulfide	0.190U	0.190	50.0	53.2	106	35 - 160
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	59.5	119	65 - 140
75-00-3	Chloroethane	0.279U	0.279	50.0	57.0	114	60 - 135
136777-61-2	m,p-Xylene	0.099U	0.099	100	104	104	75 - 130
67-66-3	Chloroform	0.062U	0.062	50.0	48.6	97	65 - 135
74-87-3	Chloromethane	0.076U	0.076	50.0	42.9	86	40 - 125
74-95-3	Dibromomethane	0.197U	0.197	50.0	51.9	104	75 - 125
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	49.9	100	30 - 155
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.7	101	70 - 135
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	52.0	104	70 - 130
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	53.2	106	70 - 125
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	51.7	103	60 - 140
75-09-2	Methylene chloride	0.102U	0.102	50.0	55.9	112	55 - 140
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.3	105	75 - 125
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	56.5	113	70 - 130
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	56.1	112	55 - 140
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.8	106	75 - 125
591-78-6	2-Hexanone	0.302U	0.302	50.0	47.4	95	55 - 130
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	51.4	103	75 - 125
78-93-3	2-Butanone	0.235U	0.235	50.0	48.6	97	30 - 150
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	52.4	105	60 - 135
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	56.0	112	70 - 130
100-42-5	Styrene	0.058U	0.058	50.0	50.7	101	65 - 135
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	49.1	98	45 - 150
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.2	102	80 - 130
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	49.4	99	65 - 130
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	59.5	119	65 - 135
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	52.8	106	65 - 130

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441	**Client ID**	MB466441	LCS466441
Prep Batch N/A	**GCAL ID**	992820	992821
	Sample Type	Method Blank	LCS
	Analytical Date	10/03/2011 08:40	10/03/2011 07:59
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	49.8	100	75 - 125
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	52.2	104	60 - 145
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	49.6	99	75 - 125
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	54.9	110	75 - 130
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	58.9	118	75 - 130
75-01-4	Vinyl chloride	0.104U	0.104	50.0	50.2	100	50 - 145
95-47-6	o-Xylene	0.077U	0.077	50.0	51.0	102	80 - 120
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	44.4	89	50 - 130
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 120
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	51.4	103	65 - 125
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	53.7	107	75 - 130
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	53.8	108	70 - 135
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	54.9	110	75 - 130
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	51.2	102	75 - 125
108-86-1	Bromobenzene	0.095U	0.095	50.0	51.0	102	75 - 125
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	55.5	111	75 - 125
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	55.1	110	75 - 130
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	59.9	120	70 - 130
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	57.6	115	70 - 125
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	75 - 125
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	50.2	100	75 - 125
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	60.4	121	70 - 135
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	52.3	105	70 - 120
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	56.8	114	50 - 140
91-20-3	Naphthalene	0.175U	0.175	50.0	50.3	101	55 - 140
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	57.0	114	55 - 140
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	51.1	102	70 - 130
71-43-2	Benzene	0.049U	0.049	50.0	51.7	103	80 - 120
79-01-6	Trichloroethene	0.094U	0.094	50.0	50.6	101	70 - 125
108-88-3	Toluene	0.078U	0.078	50.0	49.3	99	75 - 120
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.2	98	80 - 120
Surrogate							
460-00-4	4-Bromofluorobenzene	46.9	94	50	50	100	75 - 120

GC/MS Volatiles Quality Control Summary

Analytical Batch 466441		**Client ID**	MB466441		LCS466441		
Prep Batch N/A		**GCAL ID**	992820		992821		
		Sample Type	Method Blank		LCS		
		Analytical Date	10/03/2011 08:40		10/03/2011 07:59		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
1868-53-7	Dibromofluoromethane	49.6	99	50	50.9	102	85 - 115
2037-26-5	Toluene d8	51	102	50	49.5	99	85 - 120
17060-07-0	1,2-Dichloroethane-d4	49.8	100	50	50.1	100	70 - 120

Analytical Batch 466593		**Client ID**	MB466593		LCS466593			LCSD466593			
Prep Batch N/A		**GCAL ID**	993481		993482			993483			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	10/05/2011 09:02		10/05/2011 07:00			10/05/2011 07:59			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	47.3	95	40 - 140	40.5	81	15	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	47.7	95	65 - 130	46.7	93	2	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	46.4	93	75 - 120	45.1	90	3	30
75-25-2	Bromoform	0.278U	0.278	50.0	47.0	94	70 - 130	44.3	89	6	30
74-83-9	Bromomethane	0.276U	0.276	50.0	45.3	91	30 - 145	48.5	97	7	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	44.0	88	35 - 160	41.0	82	7	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	47.3	95	65 - 140	45.3	91	4	30
75-00-3	Chloroethane	0.279U	0.279	50.0	55.7	111	60 - 135	50.6	101	10	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	101	101	75 - 130	95.2	95	6	30
67-66-3	Chloroform	0.062U	0.062	50.0	46.9	94	65 - 135	45.9	92	2	30
74-87-3	Chloromethane	0.076U	0.076	50.0	51.4	103	40 - 125	49.0	98	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	47.9	96	75 - 125	46.5	93	3	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	41.1	82	30 - 155	39.4	79	4	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.9	102	70 - 135	49.4	99	3	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	46.9	94	70 - 130	45.1	90	4	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	51.5	103	70 - 125	49.6	99	4	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	53.7	107	60 - 140	50.0	100	7	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	51.4	103	55 - 140	50.1	100	3	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	50.4	101	75 - 125	49.4	99	2	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	50.9	102	70 - 130	49.7	99	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	49.0	98	55 - 140	48.8	98	0.4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466593		**Client ID**	MB466593			LCS466593			LCSD466593		
Prep Batch N/A		**GCAL ID**	993481			993482			993483		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/05/2011 09:02			10/05/2011 07:00			10/05/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene		0.180U	0.180	50.0	48.8	98	75 - 125	46.3	93	5	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	50.0	100	55 - 130	44.5	89	12	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	52.1	104	75 - 125	49.4	99	5	30
78-93-3	2-Butanone		0.235U	0.235	50.0	48.3	97	30 - 150	42.1	84	14	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	48.2	96	60 - 135	43.6	87	10	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.0	102	70 - 130	48.1	96	6	30
100-42-5	Styrene		0.058U	0.058	50.0	52.1	104	65 - 135	50.7	101	3	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	50.2	100	45 - 150	48.2	96	4	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	47.3	95	80 - 130	46.0	92	3	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	44.2	88	65 - 130	41.3	83	7	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	55.8	112	65 - 135	54.1	108	3	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	50.3	101	65 - 130	47.1	94	7	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	47.7	95	75 - 125	46.8	94	2	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	46.6	93	60 - 145	43.3	87	7	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	46.9	94	75 - 125	43.0	86	9	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	51.5	103	75 - 130	49.2	98	5	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	51.5	103	75 - 130	48.6	97	6	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	49.7	99	50 - 145	45.3	91	9	30
95-47-6	o-Xylene		0.077U	0.077	50.0	52.1	104	80 - 120	49.9	100	4	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	51.2	102	50 - 130	45.4	91	12	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	48.9	98	80 - 120	47.3	95	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	52.1	104	65 - 125	50.5	101	3	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	55.2	110	75 - 130	52.1	104	6	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	51.6	103	70 - 135	50.5	101	2	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	50.8	102	75 - 130	47.1	94	8	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	49.7	99	75 - 125	48.4	97	3	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	50.7	101	75 - 125	48.5	97	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	49.5	99	75 - 125	46.7	93	6	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	51.8	104	75 - 130	49.3	99	5	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	52.1	104	70 - 130	48.9	98	6	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.2	106	70 - 125	50.0	100	6	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	52.4	105	75 - 125	50.0	100	5	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	53.5	107	75 - 125	50.9	102	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466593		**Client ID**	MB466593			LCS466593			LCSD466593		
Prep Batch N/A		**GCAL ID**	993481			993482			993483		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/05/2011 09:02			10/05/2011 07:00			10/05/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	50.1	100	70 - 135	46.9	94	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.9	104	70 - 120	49.7	99	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	59.8	120	50 - 140	57.1	114	5	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.7	107	55 - 140	50.5	101	6	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	54.9	110	55 - 140	52.7	105	4	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	49.6	99	70 - 130	46.0	92	8	30
71-43-2	Benzene		0.049U	0.049	50.0	51.3	103	80 - 120	47.7	95	7	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.8	104	70 - 125	47.3	95	9	30
108-88-3	Toluene		0.078U	0.078	50.0	51.3	103	75 - 120	49.5	99	4	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	50.6	101	80 - 120	49.0	98	3	30
Surrogate												
460-00-4	4-Bromofluorobenzene		51.1	102	50	51	102	75 - 120	50.6	101		
1868-53-7	Dibromofluoromethane		46.3	93	50	46.3	93	85 - 115	48.1	96		
2037-26-5	Toluene d8		52.3	105	50	50	100	85 - 120	50.9	102		
17060-07-0	1,2-Dichloroethane-d4		47.1	94	50	48.5	97	70 - 120	48.4	97		

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	46.8	94	40 - 140	37.5	75	22	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	49.0	98	65 - 130	46.4	93	5	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	47.7	95	75 - 120	46.2	92	3	30
75-25-2	Bromoform		0.278U	0.278	50.0	46.6	93	70 - 130	43.6	87	7	30
74-83-9	Bromomethane		0.276U	0.276	50.0	43.8	88	30 - 145	48.4	97	10	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	42.6	85	35 - 160	40.2	80	6	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.8	98	65 - 140	46.0	92	6	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.9	104	60 - 135	50.0	100	4	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	103	103	75 - 130	94.8	95	8	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-66-3	Chloroform		0.062U	0.062	50.0	48.9	98	65 - 135	45.6	91	7	30
74-87-3	Chloromethane		0.076U	0.076	50.0	49.3	99	40 - 125	47.3	95	4	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	49.5	99	75 - 125	46.6	93	6	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	40.5	81	30 - 155	37.0	74	9	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	53.5	107	70 - 135	49.2	98	8	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	48.7	97	70 - 130	45.3	91	7	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	52.4	105	70 - 125	49.1	98	7	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	54.0	108	60 - 140	49.6	99	8	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	52.2	104	55 - 140	48.4	97	8	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	52.9	106	75 - 125	50.2	100	5	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	52.9	106	70 - 130	53.1	106	0.4	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	51.1	102	55 - 140	52.2	104	2	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	50.2	100	75 - 125	46.6	93	7	30
591-78-6	2-Hexanone		0.302U	0.302	50.0	52.5	105	55 - 130	44.5	89	16	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	53.9	108	75 - 125	49.6	99	8	30
78-93-3	2-Butanone		0.235U	0.235	50.0	49.2	98	30 - 150	41.3	83	17	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	50.2	100	60 - 135	45.0	90	11	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	52.8	106	70 - 130	50.7	101	4	30
100-42-5	Styrene		0.058U	0.058	50.0	53.8	108	65 - 135	49.9	100	8	30
127-18-4	Tetrachloroethene		0.141U	0.141	50.0	51.6	103	45 - 150	48.3	97	7	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	49.4	99	80 - 130	47.3	95	4	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	42.2	84	65 - 130	41.0	82	3	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	56.6	113	65 - 135	53.2	106	6	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	52.7	105	65 - 130	49.0	98	7	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	49.8	100	75 - 125	46.3	93	7	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	47.6	95	60 - 145	43.3	87	9	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	47.9	96	75 - 125	44.7	89	7	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	53.9	108	75 - 130	51.2	102	5	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.8	106	75 - 130	50.7	101	4	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	49.0	98	50 - 145	45.1	90	8	30
95-47-6	o-Xylene		0.077U	0.077	50.0	53.6	107	80 - 120	49.7	99	8	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	50.2	100	50 - 130	46.0	92	9	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	50.6	101	80 - 120	47.4	95	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 466778		**Client ID**	MB466778			LCS466778			LCSD466778		
Prep Batch N/A		**GCAL ID**	994448			994449			994450		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	10/07/2011 10:19			10/07/2011 07:04			10/07/2011 07:59		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	54.0	108	65 - 125	49.7	99	8	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	56.1	112	75 - 130	54.0	108	4	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	55.6	111	70 - 135	52.1	104	6	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	51.2	102	75 - 130	48.2	96	6	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	52.0	104	75 - 125	48.7	97	7	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	52.4	105	75 - 125	50.2	100	4	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	50.7	101	75 - 125	48.8	98	4	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	52.8	106	75 - 130	50.5	101	4	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	53.9	108	70 - 130	51.3	103	5	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	54.7	109	70 - 125	52.0	104	5	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	52.9	106	75 - 125	50.1	100	5	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	54.1	108	75 - 125	51.1	102	6	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	51.4	103	70 - 135	49.0	98	5	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	52.2	104	70 - 120	48.3	97	8	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	58.9	118	50 - 140	58.3	117	1	30
91-20-3	Naphthalene		0.175U	0.175	50.0	53.9	108	55 - 140	49.3	99	9	30
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	55.8	112	55 - 140	51.8	104	7	30
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.2	96	70 - 130	44.1	88	9	30
71-43-2	Benzene		0.049U	0.049	50.0	51.5	103	80 - 120	47.3	95	9	30
79-01-6	Trichloroethene		0.094U	0.094	50.0	54.1	108	70 - 125	49.7	99	8	30
108-88-3	Toluene		0.078U	0.078	50.0	53.3	107	75 - 120	48.5	97	9	30
108-90-7	Chlorobenzene		0.055U	0.055	50.0	51.6	103	80 - 120	48.1	96	7	30
Surrogate												
460-00-4	4-Bromofluorobenzene		50.6	101	50	50.2	100	75 - 120	48.4	97		
1868-53-7	Dibromofluoromethane		46.2	92	50	47	94	85 - 115	48.5	97		
2037-26-5	Toluene d8		53.2	106	50	50.6	101	85 - 120	50.3	101		
17060-07-0	1,2-Dichloroethane-d4		47	94	50	48.7	97	70 - 120	49.3	99		

General Chromatography Quality Control Summary

Analytical Batch	466694	**Client ID**	MB466485			LCS466485			LCSD466485		
Prep Batch	466485	**GCAL ID**	993011			993012			993013		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS			LCSD		
	8330A	**Prep Date**	10/04/2011 12:30			10/04/2011 12:30			10/04/2011 12:30		
		Analytical Date	10/05/2011 15:41			10/05/2011 16:28			10/05/2011 17:15		
		Matrix	Water			Water			Water		
SW-846 8330A		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
2691-41-0	HMX		0.018U	0.018	2.00	2.16	108	80 - 115	2.25	113	4	30
121-82-4	RDX		0.033U	0.033	2.00	1.82	91	50 - 160	1.95	98	7	30
99-35-4	1,3,5-Trinitrobenzene		0.070U	0.070	2.00	2.06	103	65 - 140	2.14	107	4	30
99-65-0	1,3-Dinitrobenzene		0.126U	0.126	4.00	2.13	53	45 - 160	2.14	54	0.5	30
479-45-8	Tetryl		0.100U	0.100	2.00	1.47	74	20 - 175	1.37	69	7	30
98-95-3	Nitrobenzene		0.068U	0.068	2.00	2.10	105	50 - 140	2.13	107	1	30
118-96-7	2,4,6-Trinitrotoluene		0.152U	0.152	2.00	2.14	107	50 - 145	2.12	106	0.9	30
1946-51-0	4-Amino-2,6-dinitrotoluene		0.054U	0.054	2.00	1.74	87	55 - 155	1.60	80	8	30
355-72-78-2	2-Amino-4,6-dinitrotoluene		0.063U	0.063	2.00	2.03	102	50 - 155	1.91	96	6	30
121-14-2	2,4-Dinitrotoluene		0.063U	0.063	2.00	2.14	107	60 - 135	2.22	111	4	30
606-20-2	2,6-Dinitrotoluene		0.054U	0.054	2.00	1.93	97	60 - 135	1.95	98	1	30
88-72-2	2-Nitrotoluene		0.045U	0.045	2.00	1.37	69	45 - 135	1.29	65	6	30
99-08-1	3-Nitrotoluene		0.054U	0.054	2.00	1.52	76	50 - 130	1.61	81	6	30
99-99-0	4-Nitrotoluene		0.058U	0.058	2.00	1.40	70	50 - 130	1.44	72	3	30
Surrogate												
528-29-0	1,2-Dinitrobenzene		2.34	117	2	1.55	78	70 - 130	1.51	76		

Analytical Batch	466694	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch	466485	**GCAL ID**	21109280402			21109280403			21109280404		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	8330A	**Prep Date**	10/04/2011 12:30			10/04/2011 12:30			10/04/2011 12:30		
		Analytical Date	10/05/2011 18:49			10/05/2011 19:36			10/05/2011 20:23		
		Matrix	Water			Water			Water		
SW-846 8330A		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
99-35-4	1,3,5-Trinitrobenzene		0.00	0.140	2.02	2.07	102	65 - 140	1.74	86	17	30
99-65-0	1,3-Dinitrobenzene		0.00	0.255	4.04	2.09	52	45 - 160	1.70	**42***	21	30
118-96-7	2,4,6-Trinitrotoluene		0.00	0.306	2.02	1.94	96	50 - 145	1.68	83	14	30
121-14-2	2,4-Dinitrotoluene		0.00	0.126	2.02	2.16	107	60 - 135	1.75	87	21	30
606-20-2	2,6-Dinitrotoluene		0.00	0.109	2.02	1.89	94	60 - 135	1.46	72	26	30
355-72-78-2	2-Amino-4,6-dinitrotoluene		0.00	0.126	2.02	1.85	92	50 - 155	1.66	82	11	30

General Chromatography Quality Control Summary

Analytical Batch	466694	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466485	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	8330A	**Prep Date**	10/04/2011 12:30	10/04/2011 12:30	10/04/2011 12:30
		Analytical Date	10/05/2011 18:49	10/05/2011 19:36	10/05/2011 20:23
		Matrix	Water	Water	Water

SW-846 8330A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
88-72-2	2-Nitrotoluene	0.00	0.090	2.02	1.70	84	45 - 135	1.44	71	17	30
99-08-1	3-Nitrotoluene	0.00	0.108	2.02	1.51	75	50 - 130	1.15	57	27	30
1946-51-0	4-Amino-2,6-dinitrotoluene	0.00	0.109	2.02	1.51	75	55 - 155	1.33	66	13	30
99-99-0	4-Nitrotoluene	0.00	0.117	2.02	1.42	70	50 - 130	1.10	54	25	30
2691-41-0	HMX	0.00	0.035	2.02	2.30	114	80 - 115	1.84	91	22	30
98-95-3	Nitrobenzene	0.00	0.137	2.02	2.04	101	50 - 140	1.67	83	20	30
121-82-4	RDX	0.00	0.067	2.02	1.78	88	50 - 160	1.39	69	25	30
479-45-8	Tetryl	0.00	0.202	2.02	1.21	60	20 - 175	0.919	45	27	30
Surrogate											
528-29-0	1,2-Dinitrobenzene	1.86	92	2.02	1.7	84	70 - 130	1.73	86		

Inorganics Quality Control Summary

Analytical Batch	466468	**Client ID**	MB466325		LCS466325		
Prep Batch	466325	**GCAL ID**	992259		992260		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40		
		Analytical Date	10/03/2011 16:14		10/03/2011 16:16		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.075U	0.075	5.00	5.24	105	80 - 120

Analytical Batch	466468	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD				
Prep Batch	466325	**GCAL ID**	21109280402		21109280403			21109280404				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40			09/30/2011 12:40				
	Dissolved	**Analytical Date**	10/03/2011 16:27		10/03/2011 16:29			10/03/2011 16:30				
		Matrix	Water		Water			Water				
SW-846 7470A Dissolved		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**	
7439-97-6	Mercury	0.00000	0.075	5.00	4.32	86	80 - 120	4.38	88	1	30	

Analytical Batch	466600	**Client ID**	MB466512		LCS466512							
Prep Batch	466512	**GCAL ID**	993103		993104							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	10/04/2011 11:35		10/04/2011 11:35							
		Analytical Date	10/05/2011 13:00		10/05/2011 13:02							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.07647J	0.075	5.00	5.14	103	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	466468	**Client ID**	MB466325		LCS466325		
Prep Batch	466325	**GCAL ID**	992259		992260		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40		
		Analytical Date	10/03/2011 16:14		10/03/2011 16:16		
		Matrix	Water		Water		
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.075U	0.075	5.00	5.24	105	80 - 120

Analytical Batch	466468	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD				
Prep Batch	466325	**GCAL ID**	21109280402		21109280403			21109280404				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7470A	**Prep Date**	09/30/2011 12:40		09/30/2011 12:40			09/30/2011 12:40				
		Analytical Date	10/03/2011 16:17		10/03/2011 16:19			10/03/2011 16:20				
		Matrix	Water		Water			Water				
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.09518	0.075	5.00	4.51	88	80 - 120	4.41	86	2		30

Analytical Batch	466600	**Client ID**	MB466512		LCS466512							
Prep Batch	466512	**GCAL ID**	993103		993104							
Prep Method	SW-846	**Sample Type**	Method Blank		LCS							
	7470A	**Prep Date**	10/04/2011 11:35		10/04/2011 11:35							
		Analytical Date	10/05/2011 13:00		10/05/2011 13:02							
		Matrix	Water		Water							
SW-846 7470A		**Units**	ug/L	**Spike**	**Result**		**Control**					
		Result	**RDL**	**Added**		**% R**	**Limits % R**					
7439-97-6	Mercury	0.07647J	0.075	5.00	5.14	103	80 - 120					

Inorganics Quality Control Summary

Analytical Batch	466600	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch	466512	**GCAL ID**	21110010505			993105			993106			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35			
		Analytical Date	10/05/2011 13:04			10/05/2011 13:07			10/05/2011 13:12			
		Matrix	Water			Water			Water			
SW-846 7470A			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.10199	0.075	5.00	3.30	**64***	80 - 120	3.30	**64***	0.007	30

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MB466323	LCS466323
Prep Batch	466323	**GCAL ID**	992251	992252
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 23:47	10/03/2011 23:54
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	4760	95	80 - 120
7440-36-0	Antimony	3.98U	3.98	500	466	93	80 - 120
7440-38-2	Arsenic	3.49U	3.49	500	464	93	80 - 120
7440-39-3	Barium	1.59U	1.59	500	469	94	80 - 120
7440-41-7	Beryllium	0.082U	0.082	500	467	93	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	468	94	80 - 120
7440-70-2	Calcium	50.0U	50.0	5000	4960	99	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	468	94	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	460	92	80 - 120
7440-50-8	Copper	1.69U	1.69	500	460	92	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	4750	95	80 - 120
7439-92-1	Lead	2.83U	2.83	500	460	92	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	4800	96	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	469	94	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	475	95	80 - 120
7440-02-0	Nickel	0.84U	0.84	500	475	95	80 - 120
7440-09-7	Potassium	100U	100	10000	9480	95	80 - 120
7782-49-2	Selenium	3.79U	3.79	500	456	91	80 - 120
7440-22-4	Silver	0.64U	0.64	500	476	95	80 - 120
7440-23-5	Sodium	611J	200	20000	19500	98	80 - 120
7440-28-0	Thallium	2.60U	2.60	500	466	93	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	460	92	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	464	93	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	483	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466323	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/04/2011 00:01	10/04/2011 00:09	10/04/2011 00:30
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	4880	98	80 - 120	4730	95	3	30
7440-36-0	Antimony	5.29	3.98	500	504	100	80 - 120	500	99	0.7	30
7440-38-2	Arsenic	0.0	3.49	500	503	101	80 - 120	497	99	1	30
7440-39-3	Barium	20.7	1.59	500	495	95	80 - 120	485	93	2	30
7440-41-7	Beryllium	0.0	0.082	500	481	96	80 - 120	471	94	2	30
7440-43-9	Cadmium	0.0	0.20	500	469	94	80 - 120	458	92	2	30
7440-47-3	Chromium	1.96	1.00	500	464	93	80 - 120	456	91	2	30
7440-48-4	Cobalt	0.0	1.00	500	466	93	80 - 120	462	92	0.9	30
7440-50-8	Copper	13.7	1.69	500	489	95	80 - 120	481	94	2	30
7439-89-6	Iron	0.0	40.0	5000	4850	97	80 - 120	4700	94	3	30
7439-92-1	Lead	0.0	2.83	500	459	92	80 - 120	453	91	1	30
7439-95-4	Magnesium	61200	50.0	5000	67200	120	80 - 120	65100	**78***	3	30
7439-96-5	Manganese	10.2	2.00	500	487	95	80 - 120	481	94	1	30
7439-98-7	Molybdenum	3.37	3.75	500	502	100	80 - 120	495	98	1	30
7440-02-0	Nickel	0.0	0.84	500	463	93	80 - 120	459	92	0.7	30
7440-09-7	Potassium	7750	100	10000	17800	100	80 - 120	17300	96	3	30
7782-49-2	Selenium	0.0	3.79	500	476	95	80 - 120	475	95	0.3	30
7440-22-4	Silver	0.0	0.64	500	485	97	80 - 120	475	95	2	30
7440-23-5	Sodium	459000	200	20000	492000	**170***	80 - 120	486000	**137***	1	30
7440-28-0	Thallium	0.0	2.60	500	465	93	80 - 120	464	93	0.3	30
7440-32-6	Titanium	1.24	1.20	500	493	98	80 - 120	483	96	2	30
7440-62-2	Vanadium	29.6	3.75	500	509	96	80 - 120	503	95	1	30
7440-66-6	Zinc	339	5.89	500	810	94	80 - 120	794	91	2	30

Inorganics Quality Control Summary

Analytical Batch	466535	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch	466323	**GCAL ID**	21109280402			21109280403			21109280404		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	09/30/2011 12:40			09/30/2011 12:40			09/30/2011 12:40		
		Analytical Date	10/05/2011 16:48			10/05/2011 16:57			10/05/2011 17:03		
		Matrix	Water			Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium		64100	50.0	5000	70400	**126***	80 - 120	69000	99	2	30

Analytical Batch	466696	**Client ID**	MB466511			LCS466511		
Prep Batch	466511	**GCAL ID**	993097			993098		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 17:17			10/06/2011 17:24		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4940	99	80 - 120
7440-36-0	Antimony		3.98U	3.98	500	478	96	80 - 120
7440-38-2	Arsenic		3.49U	3.49	500	497	99	80 - 120
7440-39-3	Barium		2.10J	1.59	500	491	98	80 - 120
7440-41-7	Beryllium		0.082U	0.082	500	490	98	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	499	100	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	5040	101	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	494	99	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	488	98	80 - 120
7440-50-8	Copper		1.69U	1.69	500	482	96	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	5020	100	80 - 120
7439-92-1	Lead		2.83U	2.83	500	495	99	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	5170	103	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	494	99	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	489	98	80 - 120
7440-02-0	Nickel		0.84U	0.84	500	494	99	80 - 120
7440-09-7	Potassium		100U	100	10000	9690	97	80 - 120
7782-49-2	Selenium		3.79U	3.79	500	496	99	80 - 120
7440-22-4	Silver		0.64U	0.64	500	490	98	80 - 120
7440-23-5	Sodium		200U	200	20000	20000	100	80 - 120
7440-28-0	Thallium		2.60U	2.60	500	493	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	MB466511	LCS466511
Prep Batch	466511	**GCAL ID**	993097	993098
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3010A	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 17:17	10/06/2011 17:24
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	485	97	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	489	98	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	490	98	80 - 120

Analytical Batch	466696	**Client ID**	M114MW004	992585MS	992585MSD
Prep Batch	466511	**GCAL ID**	21110010501	993099	993100
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3010A	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 17:30	10/06/2011 17:37	10/06/2011 17:43
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	110	60.0	5000	5140	101	80 - 120	5200	102	1	30
7440-36-0	Antimony	0.0	3.98	500	551	110	80 - 120	576	115	4	30
7440-38-2	Arsenic	0.0	3.49	500	595	119	80 - 120	624	**125***	5	30
7440-39-3	Barium	15.2	1.59	500	527	102	80 - 120	535	104	1	30
7440-41-7	Beryllium	0.0	0.082	500	508	102	80 - 120	515	103	1	30
7440-43-9	Cadmium	1.58	0.20	500	517	103	80 - 120	528	105	2	30
7440-47-3	Chromium	4.29	1.00	500	503	100	80 - 120	510	101	1	30
7440-48-4	Cobalt	0.0	1.00	500	512	102	80 - 120	531	106	4	30
7440-50-8	Copper	13.8	1.69	500	569	111	80 - 120	576	112	1	30
7439-89-6	Iron	32.0	40.0	5000	5120	102	80 - 120	5160	103	0.9	30
7439-92-1	Lead	0.0	2.83	500	505	101	80 - 120	524	105	4	30
7439-95-4	Magnesium	283000	50.0	5000	306000	**465***	80 - 120	311000	**568***	2	30
7439-98-7	Molybdenum	13.1	3.75	500	534	104	80 - 120	552	108	3	30
7440-02-0	Nickel	1.22	0.84	500	498	99	80 - 120	516	103	4	30
7440-09-7	Potassium	17100	100	10000	28800	117	80 - 120	29100	**121***	1	30
7782-49-2	Selenium	21.6	3.79	500	611	118	80 - 120	642	**124***	5	30
7440-22-4	Silver	0.0	0.64	500	547	109	80 - 120	553	111	1	30
7440-28-0	Thallium	0.0	2.60	500	514	103	80 - 120	533	107	4	30
7440-62-2	Vanadium	4.00	3.75	500	536	106	80 - 120	543	108	1	30

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 17:30			10/06/2011 17:37			10/06/2011 17:43		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-66-6	Zinc	347	5.89	500	907	112	80 - 120	922	115	2	30
7440-32-6	Titanium	1.08	1.20	500	488	97	80 - 120	496	99	2	30

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 16:53			10/10/2011 16:59			10/10/2011 17:05		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	303000	50.0	5000	318000	**312***	80 - 120	321000	**368***	0.9	30
7439-96-5	Manganese	3.49	2.00	500	493	98	80 - 120	495	98	0.4	30

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466511	**GCAL ID**	21110010501			993099			993100		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD		
	3010A	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 13:27			10/10/2011 13:50			10/10/2011 13:57		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2170000	5000	20000	2230000	**291***	80 - 120	2290000	**567***	2	30

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MB466324	LCS466324
Prep Batch	466324	**GCAL ID**	992256	992257
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 21:33	10/03/2011 21:41
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	60.0U	60.0	5000	5220	104	80 - 120
7440-36-0	Antimony	3.98U	3.98	500	493	99	80 - 120
7440-38-2	Arsenic	3.49U	3.49	500	526	105	80 - 120
7440-39-3	Barium	1.59U	1.59	500	522	104	80 - 120
7440-41-7	Beryllium	0.082U	0.082	500	528	106	80 - 120
7440-43-9	Cadmium	0.20U	0.20	500	530	106	80 - 120
7440-70-2	Calcium	206	50.0	5000	5220	104	80 - 120
7440-47-3	Chromium	1.00U	1.00	500	520	104	80 - 120
7440-48-4	Cobalt	1.00U	1.00	500	518	104	80 - 120
7440-50-8	Copper	1.69U	1.69	500	515	103	80 - 120
7439-89-6	Iron	40.0U	40.0	5000	5200	104	80 - 120
7439-92-1	Lead	2.83U	2.83	500	515	103	80 - 120
7439-95-4	Magnesium	50.0U	50.0	5000	5240	105	80 - 120
7439-96-5	Manganese	2.00U	2.00	500	522	104	80 - 120
7439-98-7	Molybdenum	3.75U	3.75	500	495	99	80 - 120
7440-02-0	Nickel	0.84U	0.84	500	532	106	80 - 120
7440-09-7	Potassium	100U	100	10000	10400	104	80 - 120
7782-49-2	Selenium	3.79U	3.79	500	524	105	80 - 120
7440-22-4	Silver	0.64U	0.64	500	538	108	80 - 120
7440-23-5	Sodium	200U	200	20000	21500	107	80 - 120
7440-28-0	Thallium	2.60U	2.60	500	525	105	80 - 120
7440-62-2	Vanadium	3.75U	3.75	500	512	102	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	532	106	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	501	100	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466454	**Client ID**	MA01MW003	MA01MW003-MS	MA01MW003-MSD
Prep Batch	466324	**GCAL ID**	21109280402	21109280403	21109280404
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	09/30/2011 12:40	09/30/2011 12:40	09/30/2011 12:40
		Analytical Date	10/03/2011 21:48	10/03/2011 21:56	10/03/2011 22:02
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	60.0	5000	5240	105	80 - 120	4820	96	8	30
7440-36-0	Antimony	0.0	3.98	500	547	109	80 - 120	493	99	10	30
7440-38-2	Arsenic	0.0	3.49	500	562	112	80 - 120	505	101	11	30
7440-39-3	Barium	18.1	1.59	500	537	104	80 - 120	488	94	9	30
7440-41-7	Beryllium	0.0	0.082	500	526	105	80 - 120	479	96	9	30
7440-43-9	Cadmium	0.0	0.20	500	511	102	80 - 120	467	93	9	30
7440-47-3	Chromium	0.52	1.00	500	503	101	80 - 120	457	91	10	30
7440-48-4	Cobalt	0.0	1.00	500	518	104	80 - 120	462	92	11	30
7440-50-8	Copper	12.7	1.69	500	541	106	80 - 120	489	95	10	30
7439-89-6	Iron	0.0	40.0	5000	5200	104	80 - 120	4780	96	8	30
7439-92-1	Lead	0.0	2.83	500	509	102	80 - 120	455	91	11	30
7439-95-4	Magnesium	58700	50.0	5000	70500	**236***	80 - 120	67300	**172***	5	30
7439-96-5	Manganese	8.24	2.00	500	528	104	80 - 120	480	94	9	30
7439-98-7	Molybdenum	3.10	3.75	500	536	107	80 - 120	483	96	10	30
7440-02-0	Nickel	0.0	0.84	500	517	103	80 - 120	460	92	12	30
7440-09-7	Potassium	7620	100	10000	19000	113	80 - 120	17700	101	7	30
7782-49-2	Selenium	0.0	3.79	500	546	109	80 - 120	481	96	13	30
7440-22-4	Silver	0.0	0.64	500	534	107	80 - 120	484	97	10	30
7440-23-5	Sodium	430000	200	20000	522000	**463***	80 - 120	490000	**302***	6	30
7440-28-0	Thallium	0.0	2.60	500	511	102	80 - 120	460	92	11	30
7440-32-6	Titanium	0.0	1.20	500	518	104	80 - 120	473	95	9	30
7440-62-2	Vanadium	26.7	3.75	500	553	105	80 - 120	503	95	9	30
7440-66-6	Zinc	316	5.89	500	886	114	80 - 120	814	100	8	30

Inorganics Quality Control Summary

Analytical Batch	466535	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch	466324	**GCAL ID**	21109280402			21109280403			21109280404			
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD			
	Dissolved	**Prep Date**	09/30/2011 12:40			09/30/2011 12:40			09/30/2011 12:40			
		Analytical Date	10/05/2011 13:58			10/05/2011 14:06			10/05/2011 16:08			
		Matrix	Water			Water			Water			
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium		58600	50.0	5000	68700	**202***	80 - 120	69000	**208***	0.5	30

Analytical Batch	466696	**Client ID**	MB466510			LCS466510		
Prep Batch	466510	**GCAL ID**	993092			993093		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 15:19			10/06/2011 15:27		
		Matrix	Water			Water		
SW-846 6010C			**Units**	ug/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		60.0U	60.0	5000	4920	98	80 - 120
7440-36-0	Antimony		3.98U	3.98	500	482	96	80 - 120
7440-38-2	Arsenic		3.49U	3.49	500	502	100	80 - 120
7440-39-3	Barium		1.59U	1.59	500	491	98	80 - 120
7440-41-7	Beryllium		0.082U	0.082	500	498	100	80 - 120
7440-43-9	Cadmium		0.20U	0.20	500	503	101	80 - 120
7440-70-2	Calcium		50.0U	50.0	5000	5140	103	80 - 120
7440-47-3	Chromium		1.00U	1.00	500	492	98	80 - 120
7440-48-4	Cobalt		1.00U	1.00	500	493	99	80 - 120
7440-50-8	Copper		1.69U	1.69	500	482	96	80 - 120
7439-89-6	Iron		40.0U	40.0	5000	5000	100	80 - 120
7439-92-1	Lead		2.83U	2.83	500	502	100	80 - 120
7439-95-4	Magnesium		50.0U	50.0	5000	5080	102	80 - 120
7439-96-5	Manganese		2.00U	2.00	500	505	101	80 - 120
7439-98-7	Molybdenum		3.75U	3.75	500	486	97	80 - 120
7440-02-0	Nickel		0.84U	0.84	500	499	100	80 - 120
7440-09-7	Potassium		100U	100	10000	9590	96	80 - 120
7782-49-2	Selenium		3.79U	3.79	500	510	102	80 - 120
7440-22-4	Silver		0.64U	0.64	500	497	99	80 - 120
7440-23-5	Sodium		200U	200	20000	20500	102	80 - 120
7440-28-0	Thallium		2.60U	2.60	500	497	99	80 - 120

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	MB466510	LCS466510
Prep Batch	466510	**GCAL ID**	993092	993093
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 15:19	10/06/2011 15:27
		Matrix	Water	Water

SW-846 6010C		**Units**	ug/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7440-62-2	Vanadium	3.75U	3.75	500	484	97	80 - 120
7440-66-6	Zinc	5.89U	5.89	500	500	100	80 - 120
7440-32-6	Titanium	1.20U	1.20	500	487	97	80 - 120

Analytical Batch	466696	**Client ID**	M114MW004	992585MS	992585MSD
Prep Batch	466510	**GCAL ID**	21110010501	993094	993095
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	10/04/2011 11:35	10/04/2011 11:35	10/04/2011 11:35
		Analytical Date	10/06/2011 15:33	10/06/2011 15:40	10/06/2011 15:45
		Matrix	Water	Water	Water

SW-846 6010C		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7429-90-5	Aluminum	55.6	60.0	5000	5210	103	80 - 120	5050	100	3	20
7440-36-0	Antimony	0.0	3.98	500	590	118	80 - 120	565	113	4	20
7440-38-2	Arsenic	4.75	3.49	500	620	**123***	80 - 120	597	118	4	20
7440-39-3	Barium	15.0	1.59	500	546	106	80 - 120	527	102	4	20
7440-41-7	Beryllium	0.0	0.082	500	534	107	80 - 120	513	103	4	20
7440-43-9	Cadmium	1.40	0.20	500	524	105	80 - 120	504	101	4	20
7440-47-3	Chromium	2.38	1.00	500	522	104	80 - 120	502	100	4	20
7440-48-4	Cobalt	0.0	1.00	500	537	107	80 - 120	516	103	4	20
7440-50-8	Copper	17.6	1.69	500	606	118	80 - 120	584	113	4	20
7439-89-6	Iron	0.0	40.0	5000	5250	105	80 - 120	5060	101	4	20
7439-92-1	Lead	0.0	2.83	500	525	105	80 - 120	503	101	4	20
7439-95-4	Magnesium	283000	50.0	5000	321000	**769***	80 - 120	321000	**771***	0.02	20
7439-98-7	Molybdenum	13.3	3.75	500	564	110	80 - 120	542	106	4	20
7440-02-0	Nickel	0.0	0.84	500	519	104	80 - 120	500	100	4	20
7440-09-7	Potassium	18300	100	10000	30700	**125***	80 - 120	30400	**121***	1	20
7782-49-2	Selenium	22.4	3.79	500	632	**122***	80 - 120	601	116	5	20
7440-22-4	Silver	0.0	0.64	500	579	116	80 - 120	557	111	4	20
7440-28-0	Thallium	0.0	2.60	500	535	107	80 - 120	515	103	4	20
7440-62-2	Vanadium	6.46	3.75	500	560	111	80 - 120	540	107	4	20

Inorganics Quality Control Summary

Analytical Batch	466696	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/06/2011 15:33			10/06/2011 15:40			10/06/2011 15:45		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-66-6	Zinc	366	5.89	500	944	116	80 - 120	922	111	2	20
7440-32-6	Titanium	0.0	1.20	500	520	104	80 - 120	500	100	4	20

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 15:30			10/10/2011 15:36			10/10/2011 15:42		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	339000	50.0	5000	360000	**402***	80 - 120	363000	**461***	0.8	20
7439-96-5	Manganese	0.0	2.00	500	533	107	80 - 120	510	102	4	20

Analytical Batch	466862	**Client ID**	M114MW004			992585MS			992585MSD		
Prep Batch	466510	**GCAL ID**	21110010501			993094			993095		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	10/04/2011 11:35			10/04/2011 11:35			10/04/2011 11:35		
		Analytical Date	10/10/2011 11:04			10/10/2011 11:11			10/10/2011 11:18		
		Matrix	Water			Water			Water		
SW-846 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	2480000	5000	20000	2560000	**424***	80 - 120	2520000	**236***	1	20

General Chemistry Quality Control Summary

Analytical Batch 466317	**Client ID**	MB466317			LCS466317		
Prep Batch N/A	**GCAL ID**	992213			992214		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 13:00			09/30/2011 13:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 466317	**Client ID**	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	**GCAL ID**	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	1790	10.0	1740	3.1	5

Analytical Batch 466317	**Client ID**	EEO-MW11-0911-GW01 (1)		EEO-QCSD-0911-GW01 DUP		
Prep Batch N/A	**GCAL ID**	21109290101		21109290105		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3840	10.0	3890	1.1	5

Analytical Batch 466415	**Client ID**	MB466415			LCS466415		
Prep Batch N/A	**GCAL ID**	992706			992707		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/03/2011 11:00			10/03/2011 11:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	970	97	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466415	**Client ID**	U43010B		992574DUP		
Prep Batch N/A	**GCAL ID**	21110010401		992708		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/03/2011 11:00		10/03/2011 11:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2490	7.00	2540	1.7	5

Analytical Batch 466542	**Client ID**	MB466542			LCS466542		
Prep Batch N/A	**GCAL ID**	993230			993231		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 14:30			10/04/2011 14:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	948	94.8	80 - 120

Analytical Batch 466542	**Client ID**	TK-470		993136DUP		
Prep Batch N/A	**GCAL ID**	21110041701		993232		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/04/2011 14:30		10/04/2011 14:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	176	7.00	180	2.2	5

General Chemistry Quality Control Summary

Analytical Batch 466176	**Client ID**	MB466176			LCS466176		
Prep Batch N/A	**GCAL ID**	991568			991569		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 15:54			09/28/2011 15:56		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.475	95	89.5 -110.5

Analytical Batch 466176	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 15:58			09/28/2011 15:59			09/28/2011 16:01			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.085	0.003	0.500	0.558	95	89.5 -110.5	0.560	95	0.3	25

Analytical Batch 466177	**Client ID**	MB466177			LCS466177		
Prep Batch N/A	**GCAL ID**	991574			991575		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 16:51			09/28/2011 16:52		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.522	104	89.5 -110.5

Analytical Batch 466177	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 16:54			09/28/2011 16:56			09/28/2011 16:57			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.521	104	89.5 -110.5	0.521	104	0	25

General Chemistry Quality Control Summary

Analytical Batch 466216	**Client ID**	MB466216			LCS466216		
Prep Batch N/A	**GCAL ID**	991777			991778		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 09:58			09/29/2011 09:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.487	97	89.5 -110.5

Analytical Batch 466216	**Client ID**	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	**GCAL ID**	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:40			09/29/2011 11:41			09/29/2011 11:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.011	0.003	0.500	0.475	93	89.5 -110.5	0.476	93	0.3	25

Analytical Batch 466228	**Client ID**	MB466228			LCS466228		
Prep Batch N/A	**GCAL ID**	991839			991840		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 10:25			09/29/2011 10:26		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.523	105	89.5 -110.5

Analytical Batch 466228	**Client ID**	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	**GCAL ID**	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:59			09/29/2011 12:37			09/29/2011 12:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.001	0.003	0.500	0.526	105	89.5 -110.5	0.523	104	0.7	25

General Chemistry Quality Control Summary

Analytical Batch 466357	**Client ID**	MB466357			LCS466357		
Prep Batch N/A	**GCAL ID**	992503			992504		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 18:29			09/30/2011 18:30		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003J	0.003	0.500	0.474	95	89.5 -110.5

Analytical Batch 466357	**Client ID**	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	**GCAL ID**	21109280410			992505			992506			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:32			09/30/2011 19:06			09/30/2011 19:07			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.013	0.003	0.500	0.517	101	89.5 -110.5	0.526	103	2	25

Analytical Batch 466357	**Client ID**	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	**GCAL ID**	21109301906			992507			992508			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:44			09/30/2011 19:08			09/30/2011 19:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.135	0.003	0.500	0.655	104	89.5 -110.5	0.656	104	0.2	25

Analytical Batch 466358	**Client ID**	MB466358			LCS466358		
Prep Batch N/A	**GCAL ID**	992509			992510		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 17:38			09/30/2011 17:39		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.508	102	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 466358	**Client ID**	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	**GCAL ID**	21109280410			992511			992512			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:40			09/30/2011 17:42			09/30/2011 17:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.000	0.003	0.500	0.537	107	89.5 -110.5	0.535	107	0.4	25

Analytical Batch 466358	**Client ID**	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	**GCAL ID**	21109301906			992513			992514			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:53			09/30/2011 17:54			09/30/2011 17:55			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.006	0.003	0.500	0.555	110	89.5 -110.5	0.553	109	0.5	25

Analytical Batch 466373	**Client ID**	MB466373			LCS466373		
Prep Batch N/A	**GCAL ID**	992588			992589		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 11:28			10/01/2011 10:31		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.479	96	89.5 -110.5

Analytical Batch 466373	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			992590			992591			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:32			10/01/2011 10:33			10/01/2011 10:35			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.001	0.003	0.500	0.483	96	89.5 -110.5	0.483	96	0.06	25

General Chemistry Quality Control Summary

Analytical Batch 466374	**Client ID**	MB466374			LCS466374		
Prep Batch N/A	**GCAL ID**	992592			992593		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 10:43			10/01/2011 10:44		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.517	103	89.5 -110.5

Analytical Batch 466374	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			992594			992595			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:03			10/01/2011 11:04			10/01/2011 11:06			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.511	0.005	1.00	1.52	101	89.5 -110.5	1.54	102	0.9	25

Analytical Batch 466506	**Client ID**	MB466506			LCS466506		
Prep Batch N/A	**GCAL ID**	993074			993075		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 10:44			10/04/2011 10:45		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.491	98	89.5 -110.5

Analytical Batch 466506	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch N/A	**GCAL ID**	21110010505			993076			993077			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 10:49			10/04/2011 10:50			10/04/2011 10:52			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.245	0.003	0.500	0.612	**73***	89.5 -110.5	0.615	**74***	0.6	25

General Chemistry Quality Control Summary

Analytical Batch 466508	**Client ID**	MB466508			LCS466508		
Prep Batch N/A	**GCAL ID**	993081			993082		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:30			10/04/2011 11:48		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-65-0	Nitrite	0.003U	0.003	0.500	0.502	100	89.5 -110.5

Analytical Batch 466508	**Client ID**	M114MW002			993041MS			993041MSD			
Prep Batch N/A	**GCAL ID**	21110010505			993083			993084			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 11:35			10/04/2011 11:36			10/04/2011 11:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-65-0	Nitrite	0.003	0.003	0.500	0.500	99	89.5 -110.5	0.501	100	0.4	25

General Chemistry Quality Control Summary

Analytical Batch 466617	**Client ID**	MB466617			LCS466617		
Prep Batch N/A	**GCAL ID**	993797			993798		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/05/2011 17:24			10/05/2011 17:41		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.021U	0.021	2.50	2.46	98.3	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.84	96.8	82 - 110

Analytical Batch 466617	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/05/2011 18:34			10/05/2011 18:52			10/05/2011 19:09			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	477	10.5	1250	1690	97.3	79 - 109	1680	96.5	0.59	15
14808-79-8	Sulfate	524	39.5	2500	3070	102	82 - 110	3040	100	1.1	15

Analytical Batch 466718	**Client ID**	MB466718			LCS466718		
Prep Batch N/A	**GCAL ID**	994212			994213		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/06/2011 18:14			10/06/2011 18:32		
	Matrix	Water			Water		
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	0.027J	0.021	2.50	2.34	93.5	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	4.82	96.4	82 - 110

General Chemistry Quality Control Summary

Analytical Batch 466718	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 09:26			10/07/2011 09:44			10/07/2011 10:01			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6	Chloride	3970	42.0	5000	9040	101	79 - 109	9090	102	0.59	15

Analytical Batch 466718	**Client ID**	M114MW004			992585MS			992585MSD			
Prep Batch N/A	**GCAL ID**	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/06/2011 18:50			10/06/2011 19:07			10/06/2011 19:25			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	1630	79.0	5000	6980	107	82 - 110	7020	108	0.55	15

Analytical Batch 466718	**Client ID**	MW-3			993524MS			993524MSD			
Prep Batch N/A	**GCAL ID**	21110051403			994216			994217			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 10:36			10/07/2011 10:54			10/07/2011 11:12			
	Matrix	Water			Water			Water			
EPA 300.0		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14808-79-8	Sulfate	18.9	0.395	25.0	46.2	109	82 - 110	46.3	109	0.012	15

General Chemistry Quality Control Summary

Analytical Batch 466313	**Client ID**	LCS466313			
Prep Batch N/A	**GCAL ID**	992178			
	Sample Type	LCS			
	Analytical Date	09/30/2011 07:51			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	211	106	80 - 120

Analytical Batch 466313	**Client ID**	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	**GCAL ID**	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 07:51		09/30/2011 07:51		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		152	0.34	169	11	11

Analytical Batch 466422	**Client ID**	LCS466422			
Prep Batch N/A	**GCAL ID**	992732			
	Sample Type	LCS			
	Analytical Date	10/03/2011 08:56			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	201	101	80 - 120

Analytical Batch 466422	**Client ID**	M114MW004		992585DUP		
Prep Batch N/A	**GCAL ID**	21110010501		992733		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/03/2011 08:56		10/03/2011 08:56		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		59.3	0.34	60.5	2	11

General Chemistry Quality Control Summary

Analytical Batch 466579	**Client ID**	LCS466579			
Prep Batch N/A	**GCAL ID**	993418			
	Sample Type	LCS			
	Analytical Date	10/05/2011 08:02			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 466579	**Client ID**	TK-471		993140DUP		
Prep Batch N/A	**GCAL ID**	21110041702		993419		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/05/2011 08:02		10/05/2011 08:02		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		992	0.34	994	0.2	11

Analytical Batch 466580	**Client ID**	LCS466580				LCSD466580			
Prep Batch N/A	**GCAL ID**	993420				993422			
	Sample Type	LCS				LCSD			
	Analytical Date	10/05/2011 08:30				10/05/2011 08:30			
	Matrix	Water				Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	10.0	100	80 - 120	9.9	99	1	11

General Chemistry Quality Control Summary

Analytical Batch 466146	**Client ID**	MB466146			LCS466146		
Prep Batch N/A	**GCAL ID**	991369			991370		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 10:11			09/28/2011 10:11		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	490	98	80 - 120

Analytical Batch 466146	**Client ID**	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	**GCAL ID**	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 10:14			09/28/2011 10:16			09/28/2011 10:16			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	3.30	500	469	94	80 - 120	471	94	0.4	20

Analytical Batch 466230	**Client ID**	MB466230			LCS466230		
Prep Batch N/A	**GCAL ID**	991844			991845		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 11:52			09/29/2011 11:53		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	500	100	80 - 120

Analytical Batch 466230	**Client ID**	MA02 MW001D			991841MS		
Prep Batch N/A	**GCAL ID**	21109280407			991847		
	Sample Type	SAMPLE			MS		
	Analytical Date	09/29/2011 11:54			09/29/2011 11:54		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.00	3.30	500	476	95	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466230	**Client ID**	MA02 MW001D		991841DUP		
Prep Batch N/A	**GCAL ID**	21109280407		991846		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/29/2011 11:54		09/29/2011 11:54		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		3.00	3.30	1.00	**100***	25

Analytical Batch 466295	**Client ID**	MB466295			LCS466295		
Prep Batch N/A	**GCAL ID**	992102			992103		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 08:47			09/30/2011 08:47		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		3.30U	3.30	500	499	100	80 - 120

Analytical Batch 466295	**Client ID**	005C			992023MS		
Prep Batch N/A	**GCAL ID**	21109293502			992105		
	Sample Type	SAMPLE			MS		
	Analytical Date	09/30/2011 08:56			09/30/2011 08:57		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		0.000	16.5	2500	2060	82	80 - 120

Analytical Batch 466295	**Client ID**	005C		992023DUP		
Prep Batch N/A	**GCAL ID**	21109293502		992104		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 08:56		09/30/2011 08:56		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	16.5	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch 466385	**Client ID**	MB466385			LCS466385		
Prep Batch N/A	**GCAL ID**	992631			992632		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 09:51			10/01/2011 09:51		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	501	100	80 - 120

Analytical Batch 466385	**Client ID**	M114MW004			992585MS		
Prep Batch N/A	**GCAL ID**	21110010501			992634		
	Sample Type	SAMPLE			MS		
	Analytical Date	10/01/2011 09:53			10/01/2011 09:54		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	0.000	3.30	500	485	97	80 - 120

Analytical Batch 466385	**Client ID**	M114MW004		992585DUP		
Prep Batch N/A	**GCAL ID**	21110010501		992633		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/01/2011 09:53		10/01/2011 09:53		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9	Chromium VI	0.000	3.30	0.000	0	25

Analytical Batch 466501	**Client ID**	MB466501			LCS466501		
Prep Batch N/A	**GCAL ID**	993061			993062		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:10			10/04/2011 11:11		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9	Chromium VI	3.30U	3.30	500	539	108	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466501	**Client ID**	M114MW002			993041MS		
Prep Batch N/A	**GCAL ID**	21110010505			993063		
	Sample Type	SAMPLE			MS		
	Analytical Date	10/04/2011 11:11			10/04/2011 11:12		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		0.000	3.30	500	531	106	80 - 120

Analytical Batch 466501	**Client ID**	M114MW002		993041DUP		
Prep Batch N/A	**GCAL ID**	21110010505		993064		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/04/2011 11:11		10/04/2011 11:12		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	3.30	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch	466663	**Client ID**	MB466523		LCS466523		
Prep Batch	466523	**GCAL ID**	993149		993150		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCS		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:03		10/06/2011 10:04		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.020	0.0182	91.0	80 - 120

Analytical Batch	466663	**Client ID**	MB466523		LCSHI466523		
Prep Batch	466523	**GCAL ID**	993149		993151		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank		LCSHI		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:03		10/06/2011 10:05		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.10	0.0964	96.0	80 - 120

Analytical Batch	466663	**Client ID**	M114MW004		992585MS		
Prep Batch	466523	**GCAL ID**	21110010501		993152		
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:06		10/06/2011 10:07		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0516	103	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466663	**Client ID**	M114MW001	992586DUP
Prep Batch	466523	**GCAL ID**	21110010502	993153
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	DUP
		Prep Date	10/04/2011 12:30	10/04/2011 12:30
		Analytical Date	10/06/2011 10:08	10/06/2011 10:09
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
57-12-5	Total Cyanide	0.0	0.0006	0.0000	0.0	25

Analytical Batch	466665	**Client ID**	MB466327	LCS466327
Prep Batch	466327	**GCAL ID**	992272	992273
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCS
		Prep Date	10/01/2011 07:00	10/01/2011 07:00
		Analytical Date	10/06/2011 10:22	10/06/2011 10:23
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L		**Result**		**Control**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.020	0.0183	92.0	80 - 120

Analytical Batch	466665	**Client ID**	MB466327	LCSHI466327
Prep Batch	466327	**GCAL ID**	992272	992274
Prep Method	SW-846 9012A	**Sample Type**	Method Blank	LCSHI
		Prep Date	10/01/2011 07:00	10/01/2011 07:00
		Analytical Date	10/06/2011 10:22	10/06/2011 10:24
		Matrix	Water	Water

SW-846 9012A Cyanide		**Units**	mg/L		**Result**		**Control**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**
57-12-5	Total Cyanide	0.0006U	0.0006	0.10	0.0969	97.0	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466665	**Client ID**	MA01MW003		MA01MW003-MS			MA01MW003-MSD			
Prep Batch	466327	**GCAL ID**	21109280402		21109280403			21109280404			
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	10/01/2011 07:00		10/01/2011 07:00			10/01/2011 07:00			
		Analytical Date	10/06/2011 10:28		10/06/2011 10:29			10/06/2011 10:30			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.050	0.0499	100	80 - 120	0.0497	99.0	0.40	20

Analytical Batch	466665	**Client ID**	301-271		301-271 MS			301-271 MSD			
Prep Batch	466327	**GCAL ID**	21109292701		21109292703			21109292704			
Prep Method	SM 4500 CN E	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	10/01/2011 07:00		10/01/2011 07:00			10/01/2011 07:00			
		Analytical Date	10/06/2011 10:33		10/06/2011 10:34			10/06/2011 10:35			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0231	0.0006	0.050	0.0756	105	80 - 120	0.0759	106	0.40	20

Analytical Batch	466665	**Client ID**	MA01MW001	991354DUP		
Prep Batch	466327	**GCAL ID**	21109280401	992275		
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE	DUP		
		Prep Date	10/01/2011 07:00	10/01/2011 07:00		
		Analytical Date	10/06/2011 10:26	10/06/2011 10:27		
		Matrix	Water	Water		
SW-846 9012A Cyanide		**Units**	mg/L			
		Result	**RDL**	**Result**	**RPD**	**RPD Limit**
57-12-5	Total Cyanide	0.0	0.0006	0.0000	0.0	25

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211092804	10/5/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis + Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260 B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196 A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7955 4081 4998		9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	211092804	
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis & Development Corp
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9010 SA	Remarks:	Lab ID
W	9/28/11	1028		X	MA02 MW001D		13	X	X	X	X	X	X	X	X	X	X		7
W	9/28/11	1028		X	FD-1		13	X	X	X	X	X	X	X	X	X	X		8
W	9/28/11	1028			TB-2		3	X											9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	Date: 9-29-11	Time: 915
Relinquished by: (Signature) 8735 5991 2891	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only.

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804	10/7/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (3196A)	Cl/SO4/NO3/NO2	All TDS	Cyanide (NaOH) 9014	Remarks:	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X											13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
FedEx	[signature]	9/30/11	0915
8735 5991 2880			

Note: * Hex Chrome 24 hr hold time *

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only			
Trinity	4747	~~211100105~~	10/7/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1607 N Kalin Pkwy
Shallowater, TX 79363
Contact: J. Kramer
Phone: 806 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C: ~~1.9~~, 5.7

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (HNO3/Filtered)	Hex Chrome (Filtered)	CL/Sulf/NO3/NO2	Alk/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1030		X	M114 MW004		15	X	X	X	X	X	X	X	X	X	X		1
W	9/30/11	1236		X	M114 MW001		13	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1000			TB-5		1	X											3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	9/30/11	1500
FedEx	[signature]	10/1/11	900
8716 8 2160 4454	~~4995 7584 2414~~ CS		

Note: * 24-hour hold on [illegible]

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804 ~~211100105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Erlin Parkway
Shalimar Fl 32579
Contact: Jonathan Kramer
Phone: 850 613 ~~7680~~ 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual

Sampled By: Ben Stewart, Jonathan Kramer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X		4
W	10/3/11	0937		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X		5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X		6
W	10/3/11	0800		X	TB-6		3	X											7

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/3/11	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 8735 5991 2870	[signature]	10/4/11	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Hex Chrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2891, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870

October 17, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

Order No: 1110019

TEL: (225) 769-4900
FAX: (225) 767-5717

RE:

Dear Dana Merrill:

DHL Analytical received 7 sample(s) on 10/5/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1110019

Chain of Custody Record

Submitted by
Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue
Baton Rouge, LA 70820
Contact: Dana Merrill
Phone: (225)769-4900
Fax: (225)767-5717

Bill to
Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue
Baton Rouge, LA 70820
Contact: Dana Merrill
Phone: (225)769-4900
Fax: (225)767-5717

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0929
Project Name/Number: 4747
Sampled By:

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Pre-serva-tives	No. Con-tainers	PERCHLORATE (6860) -FILTERED		PERCHLORATE (6860) -UNFILTERED								Remarks:	Lab ID
01	W	9/27/2011	9:33		X	21109280401		2	X		X								MA01MW001	
02	W	9/27/2011	12:21		X	21109280402		2	X		X								MA01MW003	
	W	9/27/2011	12:21		X	21109280403		2	X		X								MA01MW003 MS	
	W	9/27/2011	12:21		X	21109280404		2	X		X								MA01MW003 MSD	
03	W	9/28/2011	10:28		X	21109280407		2	X		X								MA02MW001D	
04	W	9/28/2011	10:28		X	21109280408		2	X		X								FD-1	
05	W	9/29/2011	8:40		X	21109280410		2	X		X								MWQ-23	
06	W	9/29/2011	11:10		X	21109280411		2	X		X								MA01-MW004	
07	W	9/29/2011	13:06		X	21109280412		2	X		X								MA01-MW002	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard ___ other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/4/11	1700
[signature]	[signature]	10/5/11	1015

Note: Received temp 1.7° Therm #57 NO custody seals

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 04OCT11
ACTWGT: 48.0 LB MAN
CAD: 8640B0/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

WED - 05 OCT A1
PRIORITY OVERNIGHT

TRK# 0201 4932 5569 0759

A8 BSMA

78664
TX-US
AUS

Part # 156148-434 R072 07/11

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Work Order Number 1110019

Date Received: 10/5/2011

Received by JB

Checklist completed by: [signature] 10/5/11 (Signature / Date)

Reviewed by SS 10-5-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results (DCS results can be found with the Miscellaneous Documents) for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager
Scott Schroeder – Technical Director

John DuPont
Signature

10/17/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	10/14/2011 9:45
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/17/11

10.17.2011

Internal Standard Summary

Sequence Name:	**111014_CLO4**
Control Program:	**CIO4PGM_110726**
Quantif. Method:	**CIO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
CIO4_0.3_1	2145.881
CIO4_0.5_1	2548.699
CIO4_1.0_1	2323.890
CIO4_2.0_1	2120.738
CIO4_5.0_1	1968.739
CIO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111014	1460.205
LRB1-111014	1618.288
LCVL1-111014	1472.384
ICS1-111014	1381.102
LCS-48634	1656.983
MB-48634	1623.653
1110019-01B	1312.267
1110019-02B	2016.793
1110019-03B	1372.407
1110019-04B	1495.062
1110019-05B	1598.631
1110019-06B	1498.546
1110019-07B	1310.633
~~1110019-02BMS~~	1529.364
~~1110019-02BMSD~~	1327.776
CCV1-111014	1359.997

10/17/4

10.17.2011

LRB2-111014	1805.107
LCVL2-111014	1367.813
ICV1-111017	2256.260
ICS1-111017	2282.900
LRB1-111017	2407.729
LCVL1-111017	2609.487
1110028-01B	2548.283
1110028-02B	2519.623
1110028-03B	2500.923
1110028-04B	1984.372
1110028-05B	1975.060
1110019-02BMS	2317.634
1110019-02BMSD	2179.053
CCV1-111017	2081.867
LRB2-111017	1974.628
LCVL2-111017	1861.640

10/17/11

10.17.2011

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/11/2011 9:39**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/12/11

10.17.2011

Internal Standard Summary

Sequence Name:	**111011_CLO4**
Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111011	1454.038
ICS1-111011	1482.960
LRB1-111011	1606.663
LCVL1-111011	1688.557
LCS-48633	1707.350
MB-48633	1737.273
1110019-01A	1775.291
1110019-02A	1945.275
1110019-05A	1309.091
1110019-06A	1263.488
1110019-07A	1065.323
1110019-03A	1319.574
1110019-04A	1109.599
1110019-02AMS	1366.148
1110019-02AMSD	1408.683
CCV1-111011	1283.561

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LRB2-111011	1717.386
LCVL2-111011	1065.523
1110028-01A	1640.164
1110028-02A	1201.143
1110028-03A	2112.916
1110028-04A	2016.670
1110028-05A	1993.853
CCV2-111011	1962.865
LRB3-111011	2262.211
LCVL3-111011	2124.478

10.17.2011

10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis Total and Filtered (Parameter is ELAP Accredited but not NELAC Certified)

Exception Report R1-01

The samples were received on and log-in performed on 10/5/2011. A total of 7 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Filtered Perchlorate Analysis, batch 48633, the recovery of the Matrix Spike and Matrix Spike Duplicate (1110019-02 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS is within method control limits. No further corrective action was taken.

Exception Report R10-01

For Perchlorate Analysis, the results of total perchlorate for Sample 21109280408 were less than the results of filtered perchlorate. The difference is within the acceptable variation limits.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

This sample delivery group arrived at DHL Analytical 10/5/11.

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1110019-01	21109280401		09/27/11 09:33 AM	10/05/11
1110019-02	21109280402		09/27/11 12:21 PM	10/05/11
1110019-03	21109280407		09/28/11 10:28 AM	10/05/11
1110019-04	21109280408		09/28/11 10:28 AM	10/05/11
1110019-05	21109280410		09/29/11 08:40 AM	10/05/11
1110019-06	21109280411		09/29/11 11:10 AM	10/05/11
1110019-07	21109280412		09/29/11 01:06 PM	10/05/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1110019-01A	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-01B	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-02A	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-02B	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-03A	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-03B	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-04A	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-04B	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-05A	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-05B	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-06A	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-06B	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-07A	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-07B	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1110019-01A	21109280401	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:18 AM	ICMS_111011A
1110019-01B	21109280401	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:11 PM	ICMS_111014A
1110019-02A	21109280402	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:34 AM	ICMS_111011A
1110019-02B	21109280402	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:27 PM	ICMS_111014A
1110019-03A	21109280407	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:11 PM	ICMS_111011A
1110019-03B	21109280407	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:44 PM	ICMS_111014A
1110019-04A	21109280408	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:27 PM	ICMS_111011A
1110019-04B	21109280408	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:00 PM	ICMS_111014A
1110019-05A	21109280410	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:23 PM	ICMS_111011A
1110019-05B	21109280410	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:16 PM	ICMS_111014A
1110019-06A	21109280411	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:39 PM	ICMS_111011A
1110019-06B	21109280411	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:32 PM	ICMS_111014A
1110019-07A	21109280412	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:55 PM	ICMS_111011A
1110019-07B	21109280412	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 03:28 PM	ICMS_111014A

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280401
Lab ID: 1110019-01
Collection Date: 09/27/11 09:33 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000266	0.000100	0.000300	JN	mg/L	1	10/11/11 11:18 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000357	0.000100	0.000300	N	mg/L	1	10/14/11 12:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280402
Lab ID: 1110019-02
Collection Date: 09/27/11 12:21 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000298	0.000100	0.000300	JN	mg/L	1	10/11/11 11:34 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000413	0.000100	0.000300	N	mg/L	1	10/14/11 12:27 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280407
Lab ID: 1110019-03
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0196	0.000495	0.00149	N	mg/L	1	10/11/11 01:11 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0238	0.000495	0.00149	N	mg/L	1	10/14/11 12:44 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280408
Lab ID: 1110019-04
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0231	0.000495	0.00149	N	mg/L	1	10/11/11 01:27 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0212	0.000495	0.00149	N	mg/L	1	10/14/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280410
Lab ID: 1110019-05
Collection Date: 09/29/11 08:40 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/11/11 12:23 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/14/11 01:16 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280411
Lab ID: 1110019-06
Collection Date: 09/29/11 11:10 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00353	0.000100	0.000300	N	mg/L	1	10/11/11 12:39 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00407	0.000100	0.000300	N	mg/L	1	10/14/11 01:32 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280412
Lab ID: 1110019-07
Collection Date: 09/29/11 01:06 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00149	0.000100	0.000300	N	mg/L	1	10/11/11 12:55 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00188	0.000100	0.000300	N	mg/L	1	10/14/11 03:28 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	LCS-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	LCS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 10:43 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000286	0.000300	0.000300	0	95.3	85	115			N

Sample ID:	MB-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MBLK	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 11:00 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1110019-02AMS	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 01:44 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000721	0.000300	0.000300	0.000298	141	85	115			SN

Sample ID:	1110019-02AMSD	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MSD	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 02:00 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000739	0.000300	0.000300	0.000298	147	85	115	2.48	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	ICV1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 09:39 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00198	0.000300	0.00200	0	98.9	85	115			N

Sample ID:	ICS1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 09:55 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000322	0.000300	0.000300	0	107	85	115			N

Sample ID:	LCVL1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 10:27 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000223	0.000300	0.000200	0	112	70	130			N

Sample ID:	CCV1-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 02:16 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00548	0.000300	0.00500	0	110	85	115			N

Sample ID:	LCVL2-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 02:48 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000185	0.000300	0.000200	0	92.4	70	130			N

Sample ID:	CCV2-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 04:31 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00528	0.000300	0.00500	0	106	85	115			N

Sample ID:	LCVL3-111011	Batch ID:	R57348	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111011A	Analysis Date:	10/11/11 05:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000242	0.000300	0.000200	0	121	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	**LCS-48634**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/14/11 11:39 AM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000316	0.000300	0.000300	0	105	85	115			N

Sample ID:	**MB-48634**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/14/11 11:55 AM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU

Sample ID:	**1110019-02BMS**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/17/11 12:27 PM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000720	0.000300	0.000300	0.000413	102	85	115			N

Sample ID:	**1110019-02BMSD**	**Batch ID:**	**48634**		**TestNo:**		**SW6860**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICMS_111014A**		**Analysis Date:**		**10/17/11 12:43 PM**		**Prep Date:**		**10/11/11**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000710	0.000300	0.000300	0.000413	98.9	85	115	1.40	20	N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	ICV1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 09:45 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00209	0.000300	0.00200	0	104	85	115			N

Sample ID:	LCVL1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 10:34 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000241	0.000300	0.000200	0	120	70	130			N

Sample ID:	ICS1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 10:52 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000326	0.000300	0.000300	0	109	85	115			N

Sample ID:	CCV1-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 04:32 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00507	0.000300	0.00500	0	101	85	115			N

Sample ID:	LCVL2-111014	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/14/11 05:21 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000243	0.000300	0.000200	0	122	70	130			N

Sample ID:	ICV1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 09:56 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00204	0.000300	0.00200	0	102	85	115			N

Sample ID:	ICS1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 10:12 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000318	0.000300	0.000300	0	106	85	115			N

Sample ID:	LCVL1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 10:44 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000218	0.000300	0.000200	0	109	70	130			N

Sample ID:	CCV1-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 12:59 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00514	0.000300	0.00500	0	103	85	115			N

Sample ID:	LCVL2-111017	Batch ID:	R57349	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_111014A	Analysis Date:	10/17/11 01:32 PM	Prep Date:	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000219	0.000300	0.000200	0	109	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111011A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111011	-----	SW6860	R57348	1	10/11/11 09:39 AM	
ICS1-111011	-----	SW6860	R57348	1	10/11/11 09:55 AM	
LCVL1-111011	-----	SW6860	R57348	1	10/11/11 10:27 AM	
LCS-48633	-----	SW6860	48633	1	10/11/11 10:43 AM	10/11/11
MB-48633	-----	SW6860	48633	1	10/11/11 11:00 AM	10/11/11
1110019-01A	21109280401	SW6860	48633	1	10/11/11 11:18 AM	10/11/11
1110019-02A	21109280402	SW6860	48633	1	10/11/11 11:34 AM	10/11/11
1110019-05A	21109280410	SW6860	48633	1	10/11/11 12:23 PM	10/11/11
1110019-06A	21109280411	SW6860	48633	1	10/11/11 12:39 PM	10/11/11
1110019-07A	21109280412	SW6860	48633	1	10/11/11 12:55 PM	10/11/11
1110019-03A	21109280407	SW6860	48633	1	10/11/11 01:11 PM	10/11/11
1110019-04A	21109280408	SW6860	48633	1	10/11/11 01:27 PM	10/11/11
1110019-02AMS	21109280402MS	SW6860	48633	1	10/11/11 01:44 PM	10/11/11
1110019-02AMSD	21109280402MSD	SW6860	48633	1	10/11/11 02:00 PM	10/11/11
CCV1-111011	-----	SW6860	R57348	1	10/11/11 02:16 PM	
LCVL2-111011	-----	SW6860	R57348	1	10/11/11 02:48 PM	
CCV2-111011	-----	SW6860	R57348	1	10/11/11 04:31 PM	
LCVL3-111011	-----	SW6860	R57348	1	10/11/11 05:04 PM	

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111014A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111014	-----	SW6860	R57349	1	10/14/11 09:45 AM	
LCVL1-111014	-----	SW6860	R57349	1	10/14/11 10:34 AM	
ICS1-111014	-----	SW6860	R57349	1	10/14/11 10:52 AM	
LCS-48634	-----	SW6860	48634	1	10/14/11 11:39 AM	10/11/11
MB-48634	-----	SW6860	48634	1	10/14/11 11:55 AM	10/11/11
1110019-01B	21109280401	SW6860	48634	1	10/14/11 12:11 PM	10/11/11
1110019-02B	21109280402	SW6860	48634	1	10/14/11 12:27 PM	10/11/11
1110019-03B	21109280407	SW6860	48634	1	10/14/11 12:44 PM	10/11/11
1110019-04B	21109280408	SW6860	48634	1	10/14/11 01:00 PM	10/11/11
1110019-05B	21109280410	SW6860	48634	1	10/14/11 01:16 PM	10/11/11
1110019-06B	21109280411	SW6860	48634	1	10/14/11 01:32 PM	10/11/11
1110019-07B	21109280412	SW6860	48634	1	10/14/11 03:28 PM	10/11/11
CCV1-111014	-----	SW6860	R57349	1	10/14/11 04:32 PM	
LCVL2-111014	-----	SW6860	R57349	1	10/14/11 05:21 PM	
ICV1-111017	-----	SW6860	R57349	1	10/17/11 09:56 AM	
ICS1-111017	-----	SW6860	R57349	1	10/17/11 10:12 AM	
LCVL1-111017	-----	SW6860	R57349	1	10/17/11 10:44 AM	
1110019-02BMS	21109280402MS	SW6860	48634	1	10/17/11 12:27 PM	10/11/11
1110019-02BMSD	21109280402MSD	SW6860	48634	1	10/17/11 12:43 PM	10/11/11
CCV1-111017	-----	SW6860	R57349	1	10/17/11 12:59 PM	
LCVL2-111017	-----	SW6860	R57349	1	10/17/11 01:32 PM	

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82298

Sampling Date: 05/11/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82298

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F82298-1	05/11/11	11:01 BS	05/12/11	AQ	Ground Water	MWQ 22
F82298-1F	05/11/11	11:01 BS	05/12/11	AQ	Groundwater Filtered	MWQ 22

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job** F82298

Site: Melrose Air Force Range, NM **Report Date:** 5/31/2011 8:13:13 AM

1 Sample was collected on 05/11/2011 and was received at Accutest SE on 05/12/2011 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of F82298. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP20592

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82099-1MS, F82099-1MSD, F82099-1PS, F82099-1SDL, F82099-1DUP were used as the QC samples for metals.

Matrix Spike Recoverys for Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix

Matrix Spike Recovery for Calcium is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPDs for Duplicate for Antimony, Cobalt, Copper, Lead, Selenium, Thallium, Vanadium are outside control limits for sample MP20592-D1. RPD acceptable due to low duplicate and sample concentrations.

RPDs for Serial Dilution for Aluminum, Cobalt, Selenium, Thallium, Vanadium, Zinc, Manganese are outside control limits for sample MP20592-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP20592-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20592-SD1 for Manganese: Serial dilution indicates possible matrix interference.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP20614

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82144-15MS, F82144-15MSD, F82144-15SDL, F82144-15DUP were used as the QC samples for metals.

RPD for Duplicate for Mercury is outside control limits for sample MP20614-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD for Serial Dilution for Mercury is outside control limits for sample MP20614-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP16981

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82290-1DUP, F82290-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

Matrix Spike Recoverys for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate are outside control limits. Probable cause due to matrix interference.

Tuesday, May 31, 2011

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17002

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82309-2MS, F82309-2MSD, F82309-2DUP were used as the QC samples for Cyanide, Total.

RPD for Duplicate for Cyanide, Total is outside control limits for sample GP17002-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN44611

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F82311-13DUP, F82311-13MS, F82311-13MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN44520

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Solids, Total Dissolved is outside control limits for sample GN44520-D1. High RPD due to possible sample nonhomogeneity.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN44502

All method blanks for this batch meet method specific criteria.

Samples F82298-1DUP, F82298-1MS were used as the QC samples for Chromium, Hexavalent.

The following samples were run outside of holding time for method SW846 7196A: F82298-1. Sample received at the end of hold time and analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 31, 2011

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, May 31, 2011

Summary of Hits

Job Number: F82298
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 05/11/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F82298-1	**MWQ 22**					
Calcium		35300	1000		ug/l	SW846 6010C
Magnesium		14800	5000		ug/l	SW846 6010C
Manganese		402	15		ug/l	SW846 6010C
Sodium		320000	50000		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		150	5.0		mg/l	SM19 2320B
Chloride		317	10		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		1.8	0.50		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		1020	100		mg/l	SM19 2540C
Sulfate		228	10		mg/l	EPA 300/SW846 9056A
F82298-1F	**MWQ 22**					
Calcium		34400	1000		ug/l	SW846 6010C
Magnesium		14500	5000		ug/l	SW846 6010C
Manganese		398	15		ug/l	SW846 6010C
Sodium		308000	50000		ug/l	SW846 6010C

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1	**Date Sampled:**	05/11/11
Matrix:	AQ - Ground Water	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	35300	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14800	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	402	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	320000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1	**Date Sampled:**	05/11/11
Matrix:	AQ - Ground Water	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	150	5.0	mg/l	1	05/20/11	LE	SM19 2320B
Chloride	317	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0030 U	0.010	mg/l	1	05/12/11 14:15	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/18/11 15:01	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	1.8	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.50	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	1020	100	mg/l	1	05/13/11 13:00	CP	SM19 2540C
Sulfate	228	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1F	**Date Sampled:**	05/11/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	34400	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14500	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	398	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	308000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F82298 PAGE 1 OF 1
Accutest Quote #
SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: jkramer@trinitadc
Phone#: 850 243 0072
Sampler(s) Name(s) (Printed):

Project Information

Project Name:
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Dissolved Metals	Total Metals	Cyanide	Perchlorate	CrVI	AlkT/TS	Cl/SO4/NO3/NO2					LAB USE ONLY
1	MWQ 22	5/11/11	1701	BS	GW	6				X	X				X	X	X	X	X	X	X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 R. Sheard	5/11/11 1500	2	3	05-12-11 1000	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1

5

F82298: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82298 CLIENT: Trinity ADC PROJECT: ?

DATE/TIME RECEIVED: 05.12.11 10:00 (MM/DD/YY 24:00) NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 6022 2462

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE ET 05.12.11 REVIEWER SIGNATURE/DATE [signature] 05/12/11

NF 12/10 receipt confirmation 122910.xls

5.1 5

F82298: Chain of Custody
Page 2 of 3

Job Change Order: F82298_5/13/2011

Requested Date:	5/13/2011	**Received Date:**	5/12/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/26/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82298-all

Change: Project is Melrose in NM. Metals are MTAL, Where COC says TS= TDS, all per Jonathan K. at Trinity via phone.

Above Changes Jonathan K. at Trinity **Date:** 5/13/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82298: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82120

Sampling Date: 05/05/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Sections: 1 2 3 4 5

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F82120-1	05/05/11	12:23	BS	05/06/11	AQ	Ground Water	MA02MW001D
F82120-1F	05/05/11	12:23	BS	05/06/11	AQ	Groundwater Filtered	MA02MW001D
F82120-2	05/05/11	00:00	BS	05/06/11	AQ	Trip Blank Water	TB3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job No:** F82120

Site: Melrose Air Force Range, NM **Report Date** 5/26/2011 11:12:22

1 Sample, 1 Trip Blank were collected on 05/05/2011 and received at Accutest on 05/06/2011 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F82120. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3129

Sample(s) F82144-15MS, F82144-15MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F82120-1: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F82120-2: Sample vial(s) contained significant headspace; reported results are considered minimum values.

Extractables by GC By Method SW846 8330A

Matrix: AQ **Batch ID:** OP37125

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82243-1MS, F82243-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP20570

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82095-5MS, F82095-5MSD, F82095-5PS, F82095-5SDL, F82095-5DUP were used as the QC samples for metals.

Matrix Spike Recovery(s) for Calcium, Magnesium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Antimony, Cadmium, Cobalt, Nickel, Selenium are outside control limits for sample MP20570-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Barium, Cadmium, Chromium, Cobalt, Copper, Selenium, Zinc are outside control limits for sample MP20570-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP20570-SD1 for Zinc: Serial dilution indicates possible matrix interference.

MP20570-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20570-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP20570-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP20603

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82095-5DUP, F82095-5MS, F82095-5MSD, F82095-5SDL, F82097-9SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP16948

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82106-1DUP, F82106-1MS were used as the QC samples for Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

Matrix Spike Recovery(s) for Chloride, Nitrogen, Nitrate, Sulfate are outside control limits. Probable cause due to matrix interference.

F82120-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP16970

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82120-1MS, F82120-1DUP were used as the QC samples for Cyanide, Total.

RPD(s) for Duplicate for Cyanide, Total are outside control limits for sample GP16970-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM19 2320B

Matrix: AQ **Batch ID:** GN44543

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82161-1DUP, F82161-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN44442

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F82134-2DUP were used as the QC samples for Solids, Total Dissolved.

RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN44442-D1. High RPD due to possible sample nonhomogeneity.

Wet Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN44401

All method blanks for this batch meet method specific criteria.

Sample(s) F82120-1DUP, F82120-1MS were used as the QC samples for Chromium, Hexavalent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: May 26, 2011

Svetlana Izosimova, QA Officer (signature on file)

Manual Integration Summary

2

Lab Sample ID	Analysis Type	File ID	Manual Integrations
GBB583-CC583	GCSEMI	BB027931.D	1,3,5-Trinitrobenzene, 2,6-Dinitrotoluene, DNX, m-Nitrotoluene, MNX, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, TNX
GBB583-IC583	GCSEMI	BB027923.D	1,3,5-Trinitrobenzene, DNX, HMX, m-Nitrotoluene, MNX, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl, TNX
GBB583-IC583	GCSEMI	BB027924.D	DNX, MNX, PETN, RDX
GBB583-IC583	GCSEMI	BB027925.D	MNX, PETN, RDX
GBB583-IC583	GCSEMI	BB027926.D	PETN
GBB583-IC583	GCSEMI	BB027927.D	PETN
GBB583-IC583	GCSEMI	BB027929.D	PETN
GBB583-ICC583	GCSEMI	BB027928.D	PETN
GBB583-ICV583	GCSEMI	BB027932.D	MNX
GBB584-CC583	GCSEMI	BB027934.D	PETN
GBB584-CC583	GCSEMI	BB027945.D	PETN
GBB584-ECC583	GCSEMI	BB027975.D	PETN
GBB585-CC583	GCSEMI	BB027977.D	PETN
GBB585-ECC583	GCSEMI	BB028000.D	PETN
GBB586-ECC583	GCSEMI	BB028023.D	PETN
GBB587-CC583	GCSEMI	BB028039.D	PETN
GBB587-CC583	GCSEMI	BB028051.D	PETN
GBB587-CC583	GCSEMI	BB028061.D	PETN
GBB587-CC583	GCSEMI	BB028068.D	PETN
GBB587-CC583	GCSEMI	BB028078.D	PETN
GBB587-CC583	GCSEMI	BB028089.D	2,6-Dinitrotoluene, 3,4-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, PETN
GBB587-ECC583	GCSEMI	BB028099.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, m-Nitrotoluene, Nitroglycerine, o-Nitrotoluene,
GBB588-CC583	GCSEMI	BB028106.D	PETN
GBB588-ECC583	GCSEMI	BB028117.D	PETN
GBB589-CC583	GCSEMI	BB028120.D	PETN
GBB589-CC583	GCSEMI	BB028131.D	PETN
GBB589-CC583	GCSEMI	BB028143.D	PETN
GBB589-CC583	GCSEMI	BB028153.D	PETN
GBB589-ECC583	GCSEMI	BB028161.D	PETN
GBB590-CC583	GCSEMI	BB028164.D	PETN
GBB590-CC583	GCSEMI	BB028174.D	PETN
GBB590-CC583	GCSEMI	BB028186.D	PETN
GBB590-ECC583	GCSEMI	BB028198.D	PETN
OP37125-MS	GCSEMI	BB027982.D	HMX, RDX
OP37125-MSD	GCSEMI	BB027983.D	HMX
VC3128-IC3128	MSVOA	C078611.D	p-Dichlorobenzene, Trichlorofluoromethane
VC3128-ICV3128	MSVOA	C078617.D	Dichlorodifluoromethane

37 Manual Integrations were found for F82120

Summary of Hits

Job Number: F82120
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 05/05/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F82120-1	**MA02MW001D**					
Toluene [a]		16.0	1.0	0.20	ug/l	SW846 8260B
Calcium		129000	1000		ug/l	SW846 6010C
Copper		211	25		ug/l	SW846 6010C
Magnesium		73400	5000		ug/l	SW846 6010C
Manganese		245	15		ug/l	SW846 6010C
Selenium		102	10		ug/l	SW846 6010C
Sodium		2170000	400000		ug/l	SW846 6010C
Zinc		121	20		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		133	5.0		mg/l	SM19 2320B
Chloride		2010	100		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		11.0	5.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		501	100		mg/l	SM19 2540C
Sulfate		2020	100		mg/l	EPA 300/SW846 9056A
F82120-1F	**MA02MW001D**					
Calcium		124000	1000		ug/l	SW846 6010C
Copper		101	25		ug/l	SW846 6010C
Magnesium		72200	5000		ug/l	SW846 6010C
Manganese		204	15		ug/l	SW846 6010C
Selenium		108	10		ug/l	SW846 6010C
Sodium		1990000	400000		ug/l	SW846 6010C
Zinc		115	20		ug/l	SW846 6010C
F82120-2	**TB3**					

No hits reported in this sample.

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078646.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	16.0	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB027980.D	1	05/12/11	SL	05/12/11	OP37125	GBB585
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.084	ug/l	
121-82-4	RDX	ND	0.21	0.084	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.084	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.086	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.088	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.084	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.084	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.084	ug/l	
479-45-8	Tetryl	ND	0.21	0.084	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.084	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.084	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	129000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	211	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	73400	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	245	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	102	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	2170000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	121	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	133	5.0	mg/l	1	05/17/11	LE	SM19 2320B
Chloride	2010	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	05/06/11 13:30	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/11/11 14:35	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	11.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite [a]	< 5.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	501	100	mg/l	1	05/10/11 15:50	CP	SM19 2540C
Sulfate	2020	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1F	**Date Sampled:**	05/05/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	124000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	101	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	72200	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	204	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	108	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1990000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	115	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078647.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F82120 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkw Suite A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: Jkramer@trinity-adc
Phone#: 850-243-0072
Sampler(s) Name(s) (Printed): B. Stewart S. Kramer

Project Information

Project Name:
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Total Metals	Dissolved Metals	Cr VI	Cyanide	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC	Explosives			
1	MA02MW001D	5/5/11	1203	BS	GW	11				X	X					X	X	X	X	X	X	X	X	X			
2	TB3	5/5/11	9:26			3																					

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	5/5/11 1500	2 FX	3 FX	5-6-11	4 [illegible] 05/12/09:30
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

5.1

5

F82120: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82120 CLIENT: TRINITY ADC PROJECT: ?

DATE/TIME RECEIVED: 5-6-11 09:20 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 0122 2478

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: NO PROJECT NAME OR COC

TECHNICIAN SIGNATURE/DATE VC 5-6-11 REVIEWER SIGNATURE/DATE [signature] 05/06/11

NF 12/10 receipt confirmation 122910.xls

5.1 5

F82120: Chain of Custody
Page 2 of 3

Job Change Order: F82120_5/9/2011

Requested Date:	5/9/2011	**Received Date:**	5/6/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/20/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82120-1

MA02MW001D

Change: Per quote this is to be logged in for MTAL, where COC says Total Metals. V8260TCL, where COC says VOC, 8330A, where COC says Explosives. TDS where COC says TS.

Above Changes Quote **Date:** 5/9/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82120: Chain of Custody
Page 3 of 3

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113713**
Project ID: F82120X
Purchase Order: NA

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MAO2MW001D	1113713001	05/05/11	05/17/11	

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113713

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011
Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MAO2MW001D**	Sampling Site: NA	Collected: 05/05/2011
Lab ID: 1113713001	Media: 125 mL Plastic Wide Mouth	Received: 05/17/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/18/2011 18:51	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	**20**	0.20	2.0	1	

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	Peer Review

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at http://health.utah.gov/lab/labimp/labcert/envlabcert.html. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

CCV: 219404 Analyzed: 05/18/2011 16:04 Units: ug/L Criteria: ± 15%				CCV: 219411 Analyzed: 05/18/2011 19:12 Units: ug/L Criteria: ± 15%			CCV: 219544 Analyzed: 05/19/2011 10:27 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

CCV: 219545 Analyzed: 05/19/2011 11:51 Units: ug/L Criteria: ± 15%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

ICS: 219406 Analyzed: 05/18/2011 16:46 Units: ug/L Criteria: ± 30%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

LODV: 219405 Analyzed: 05/18/2011 16:25 Units: ug/L Criteria: ± 30%				LODV: 219412 Analyzed: 05/18/2011 19:33 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	0.159	0.1	*159	0.237	0.1	*237

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

4810/#14 1113713

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Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F82120X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	PERCHLORATE 6850	LAB USE ONLY
1	MA02MW001D	05/05/11	12:23		GW	1		X								X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other

Approved By: / Date/Rush Code:

DUE: 5/20/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

X FULL EXPANDED DATA PACKAGE AND RAW DATA

Comments / Remarks

Ship to Laboratory - ALS

Approved by -

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Arthur ALSE	5/6/11 1700	2 FED EX	3 FED EX		4 ALS 5-12-11 1010
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: ____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task:	Split:	Workorder ID: 1113713	Requested Analysis
Client: Accutest Laboratories		Account: 8001	Type: 125PWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	EPA 6850
1	05/05/2011 12:23	MAO2MW001D	1113713001		Water	A	1	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Moon, Boone C.	05/17/2011 10:10	ALS Sample Receiving	Sample Login
[illegible]	5-17-11 1121	R-33-1 JB	Storage
R-33-1	5-18-11/1300	Tom Beach	CLP analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20--03

2011-05-17--02

ALS LABORATORY GROUP SALT LAKE CITY CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Accutest

Project/Task/Site: 1113713

Date/Time of Receipt: 05·17·11 1010

Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA	Location Temp Taken:	Control/Between Samples
	Intact/Broken/NA	Are all temperatures within	
Tamper Evident:	Yes/No/NA	project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA	Are all applicable pHs within	
	Frozen/Melted/NA	specific guidelines?	Yes/No/NA

PH Check:							
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7771	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) Boone Ulcen (Printed Name) 5·17·11 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Faxed to Client? YES ☐ No ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name) Returned to Sample Receipt by: _____ (Signature) Date: _____

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: ELMS/ 1182
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850..3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850...3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850..3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	8/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence: \\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:

Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation.
Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description: 6850 Working Standard

Standard:	10684	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT					Description - 6850 Intermediate Stock
Standard:	10683	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O				Description	ASTM Type II Water
Standard:	109	Expires:	11/7/2015	Usable:	Yes
Lab Lot:	LAB 109	Created By:	ALS Support (Lims)	Amount:	100 L
Part ID:		Create Date:	10/6/2005	Validated By:	
MFG:	DCL In House	MFG Lot:		Validated Date:	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK					Description - 6850 Stock Standard
Standard:	7186	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 STOCK	Created By:	T. Bosch	Amount:	250 mL
Part ID:	IC-PER-10X-1	Create Date:	2/8/2010	Validated By:	
MFG:	AccuStandard	MFG Lot:	209115027	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK				Description	6850 QC Working Standard
Standard:	10687	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK				Description - 6850 QC Stock Standard	
Standard:	10685	Expires:	5/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC STOCK	Created By:	T. Bosch	Amount:	100 mL
Part ID:	ICC-013	Create Date:	2/10/2011	Validated By:	
MFG:	Ultra Scientific	MFG Lot:	L00429	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT				Description: 6850 QC Intermediate Standard	
Standard:	10686	Expires:	05/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

A2LA ACCREDITED

ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK			Description: Perchlorate ISTD Wrk
Standard: 10682	Expires: 02/10/2012	Usable:	Yes
Lab Lot: CLO4ISTDWRK	Created By: T. Bosch	Amount:	100 mL
Part ID:	Create Date: 02/10/2011	Validated By:	T. Bosch
MFG: ALS/SLC	MFG Lot:	Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description	Perchlorate ISTD Stock
Standard:	3915	Expires:	9/28/2017	Usable:	Yes
Lab Lot:	CLO4ISTDSTK	Created By:	T. McKay	Amount:	1 mL
Part ID:	OLM-7310-1.2	Create Date:	2/5/2009	Validated By:	T. Bosch
MFG:	Cambridge Isotope	MFG Lot:	SCHI-001	Validated Date:	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: (Isotopic Label & Enrichment Specification) PERCHLORIC ACID, SODIUM SALT (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

§ 3915

Product Information

Chemical Purity Specification:	≥98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 µg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 µg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547	24.49335
*	219405 LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549	1.59442e-1
*	219406 ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539	8.46863e-1
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
*	219408 LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685	4.50823
*	1113618001	Vial 6	1	18MAY006.D	2.17021e4	11.241	2.02186
*	219409 136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297 NR	7.52730
*	219410 136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287	6.55172
*	1113713001	Vial 9	1	18MAY009.D	3.58555e5	10.925	19.57302
*	219411 CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686	25.16005
*	219412 LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704	2.36525e-1

NR. Not Reported

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.80039
*	219405 LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-1
*	219406 ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-1
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
*	219408 LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.87492
*	1113618001	Vial 6	1	18MAY006.D	4403.96973	11.262	1.29501
*	219409 136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.78414
*	219410 136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.02725
*	1113713001	Vial 9	1	18MAY009.D	1.18943e5	10.937	21.32566
*	219411 CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.32232
*	219412 LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-1

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219404 CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.00000
*	219405 LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.00000
*	219406 ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.00000
*	219407 LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.00000
*	219408 LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.00000
*	1113618001	Vial 6	1	18MAY006.D	4.19646e4	11.286	5.00000
*	219409 136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.00000
*	219410 136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.00000
*	1113713001	Vial 9	1	18MAY009.D	6.75993e4	10.934	5.00000
*	219411 CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.00000
*	219412 LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.00000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

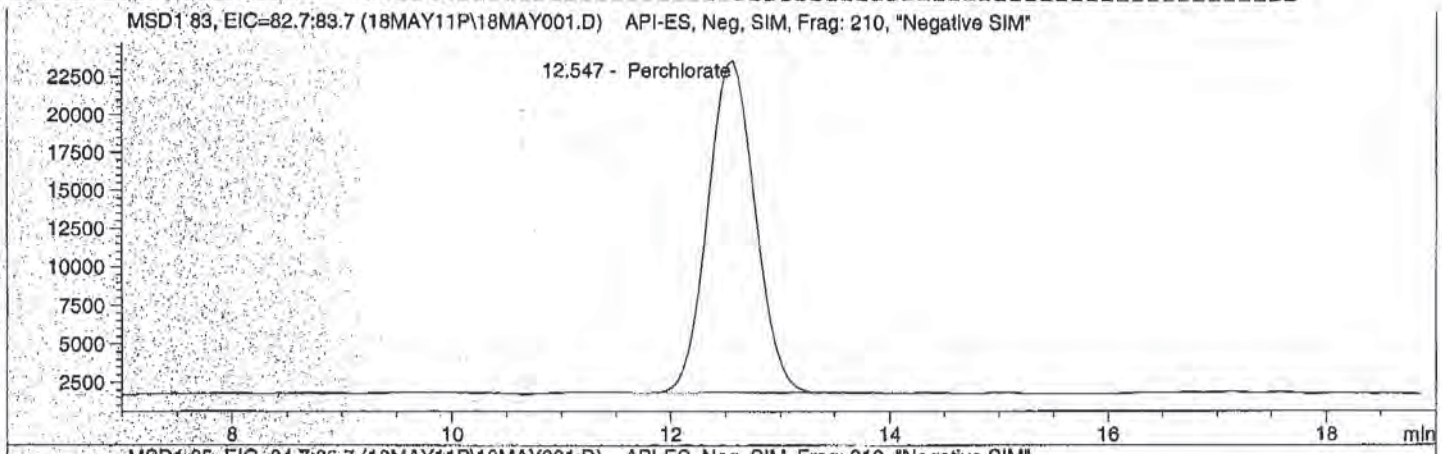
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

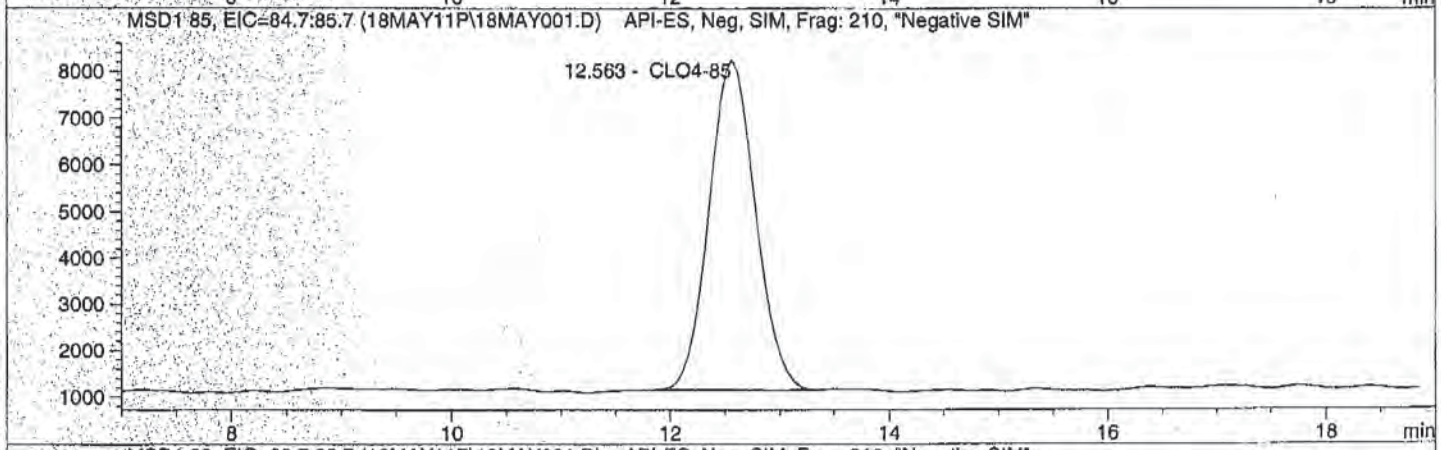
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

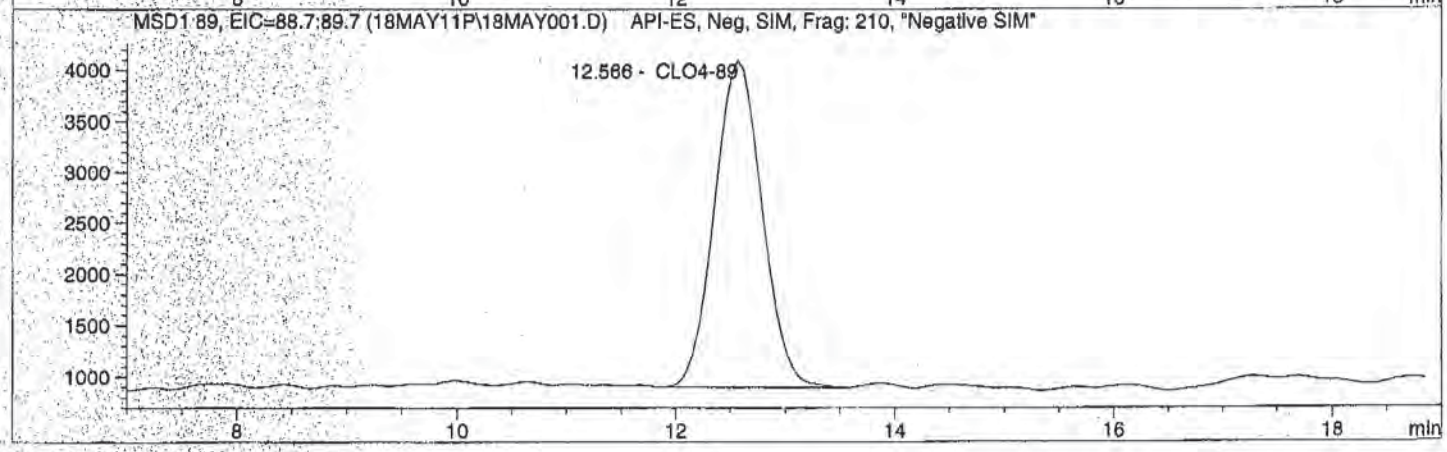
Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

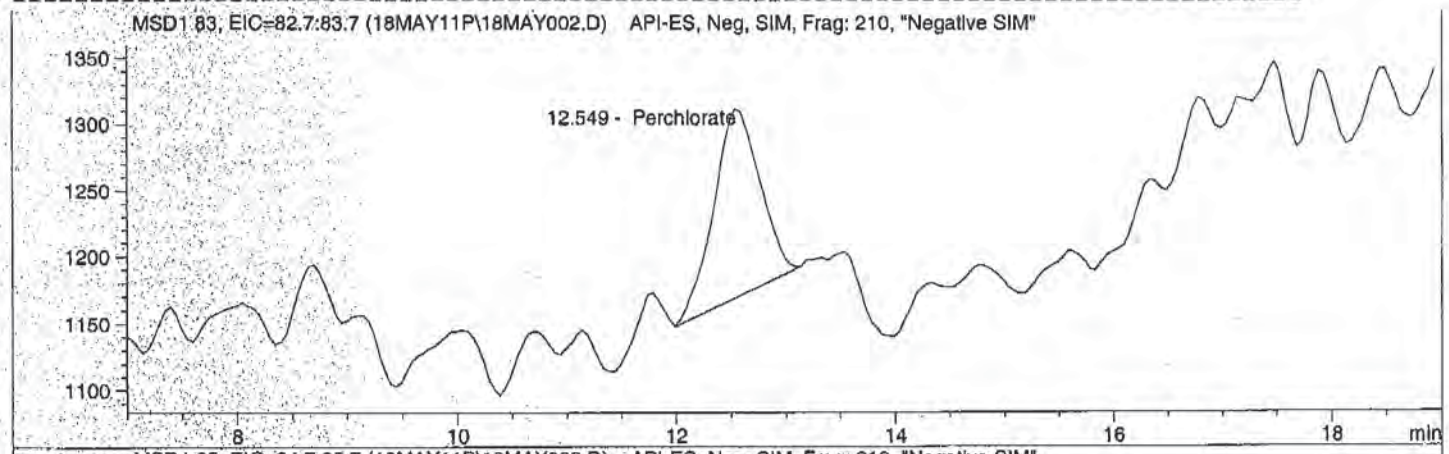
*** End of Report ***

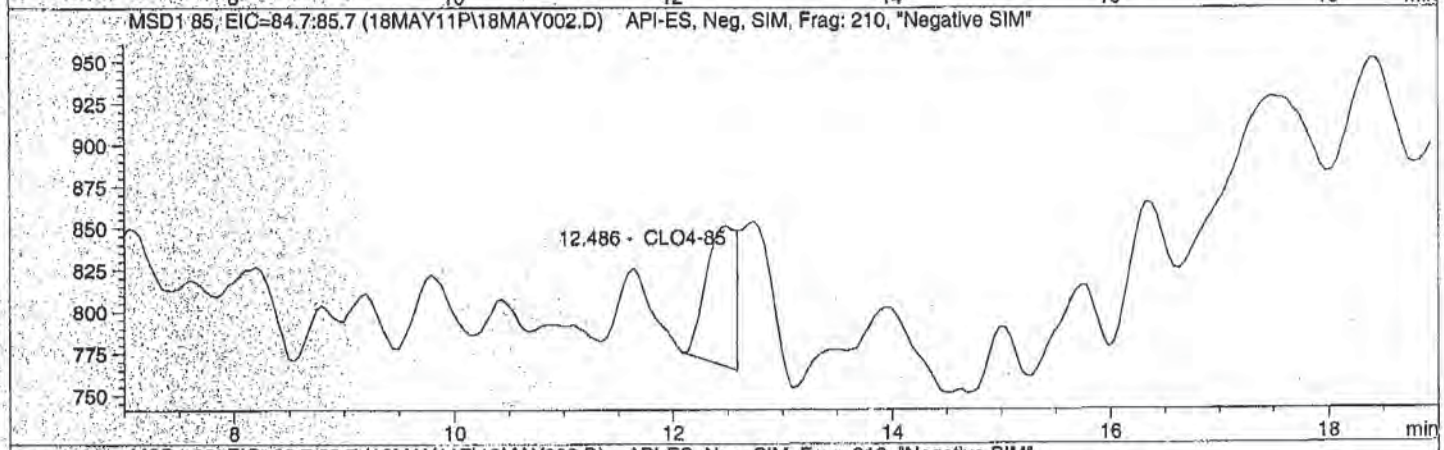
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

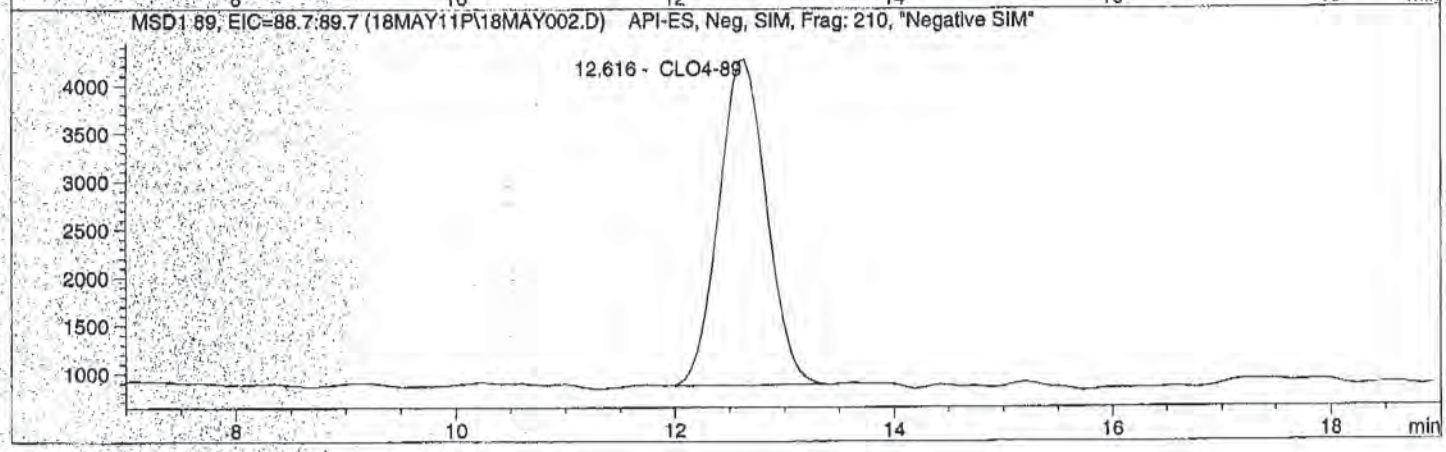
Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

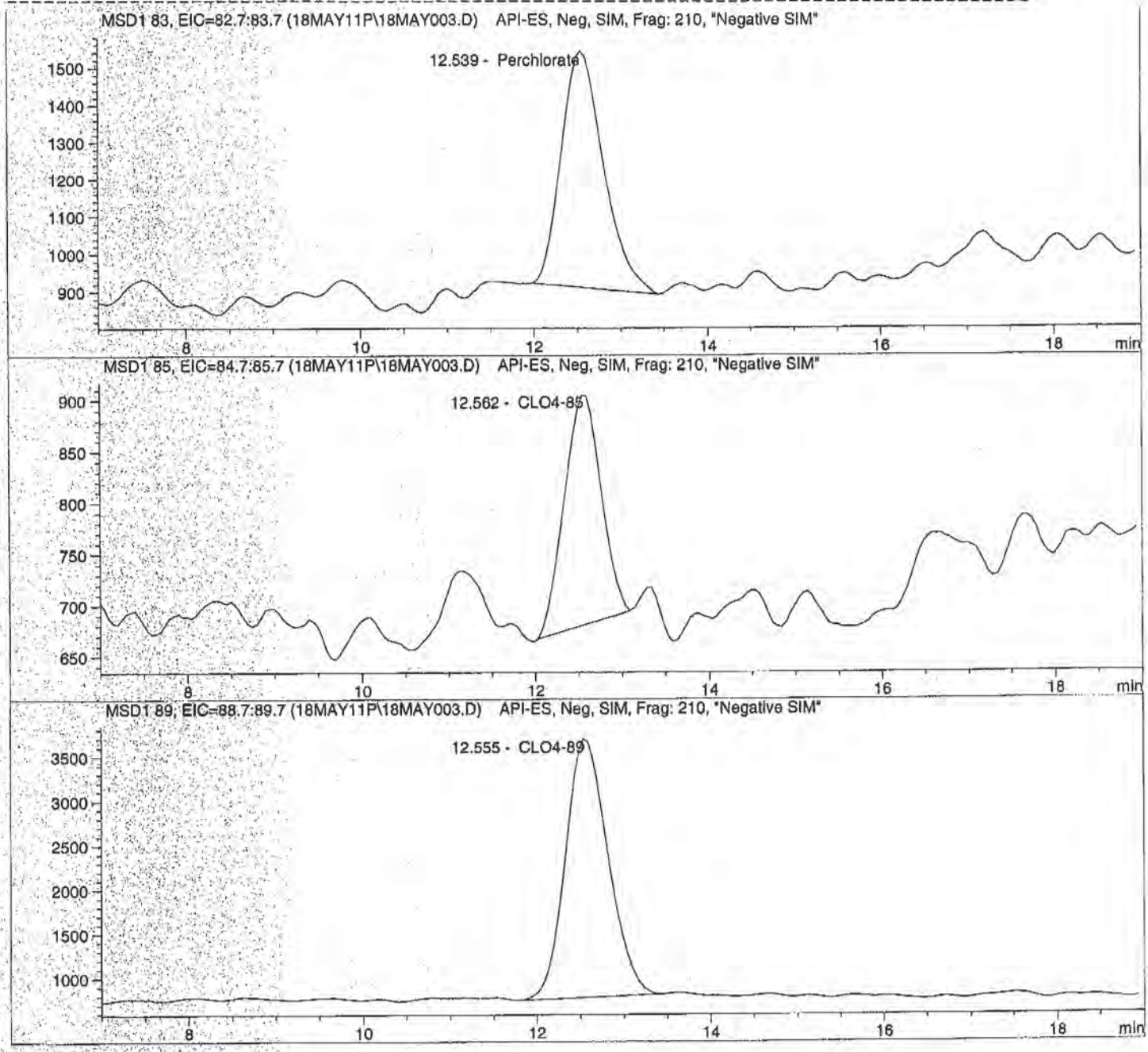
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

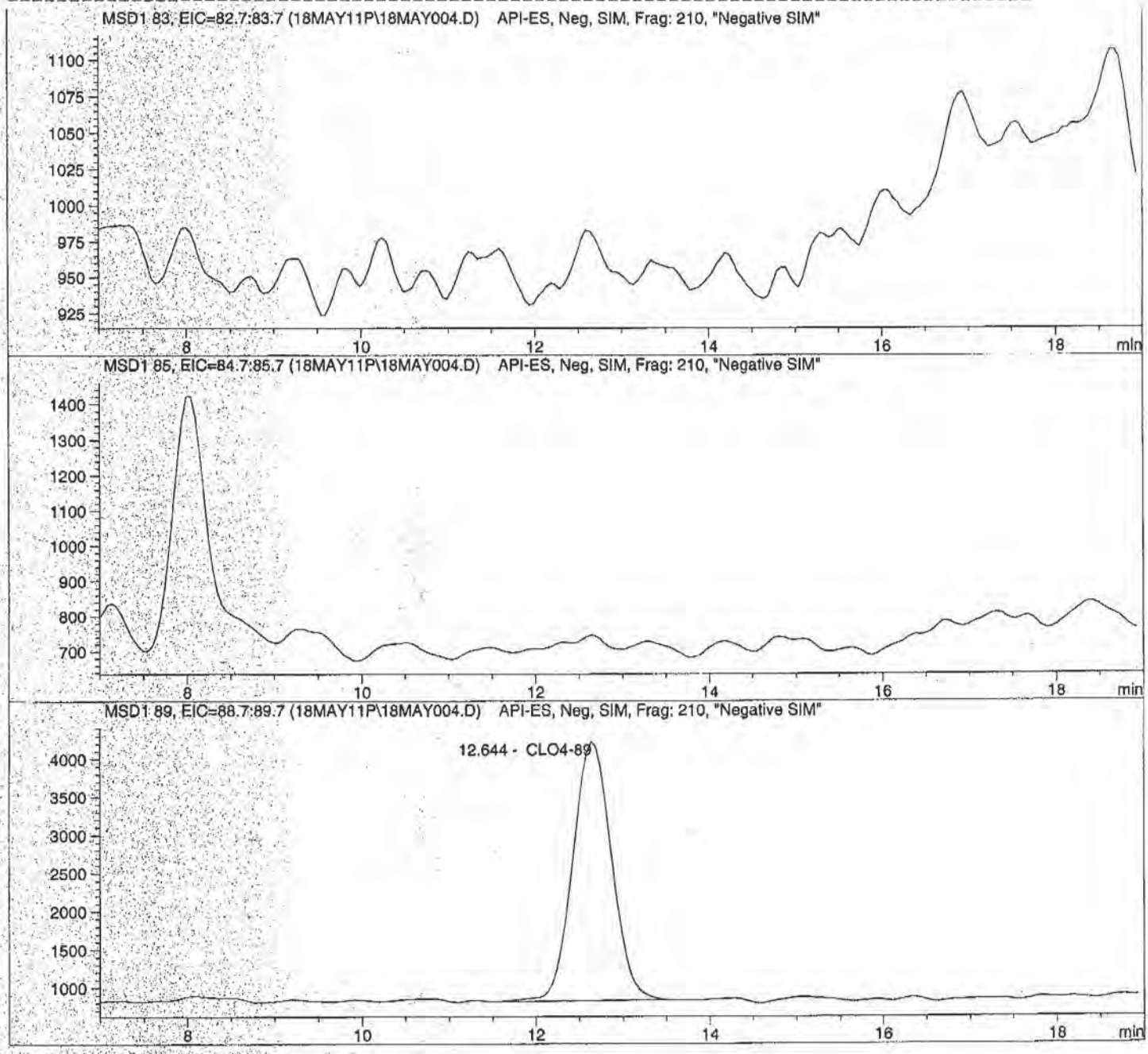
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

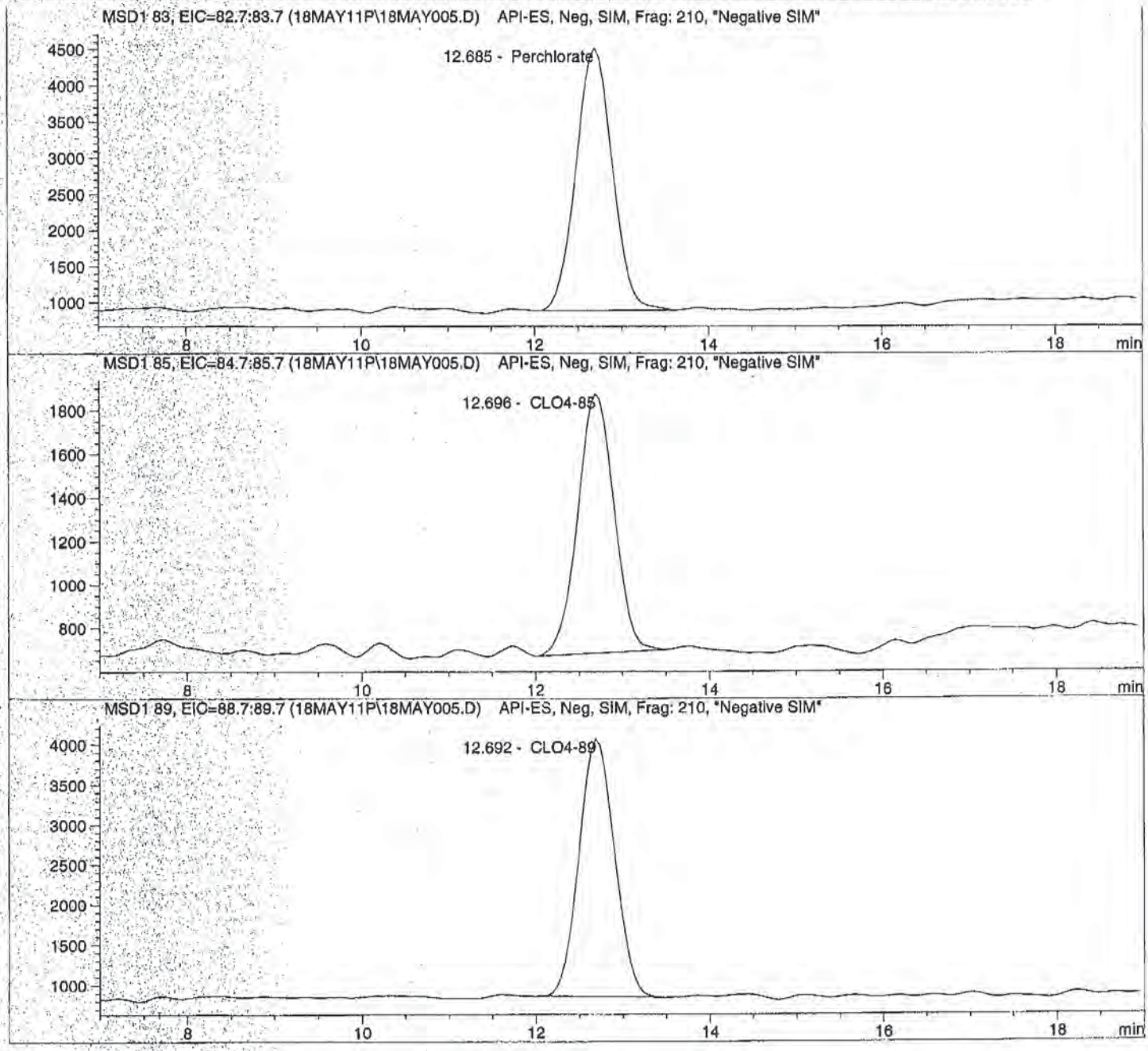
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

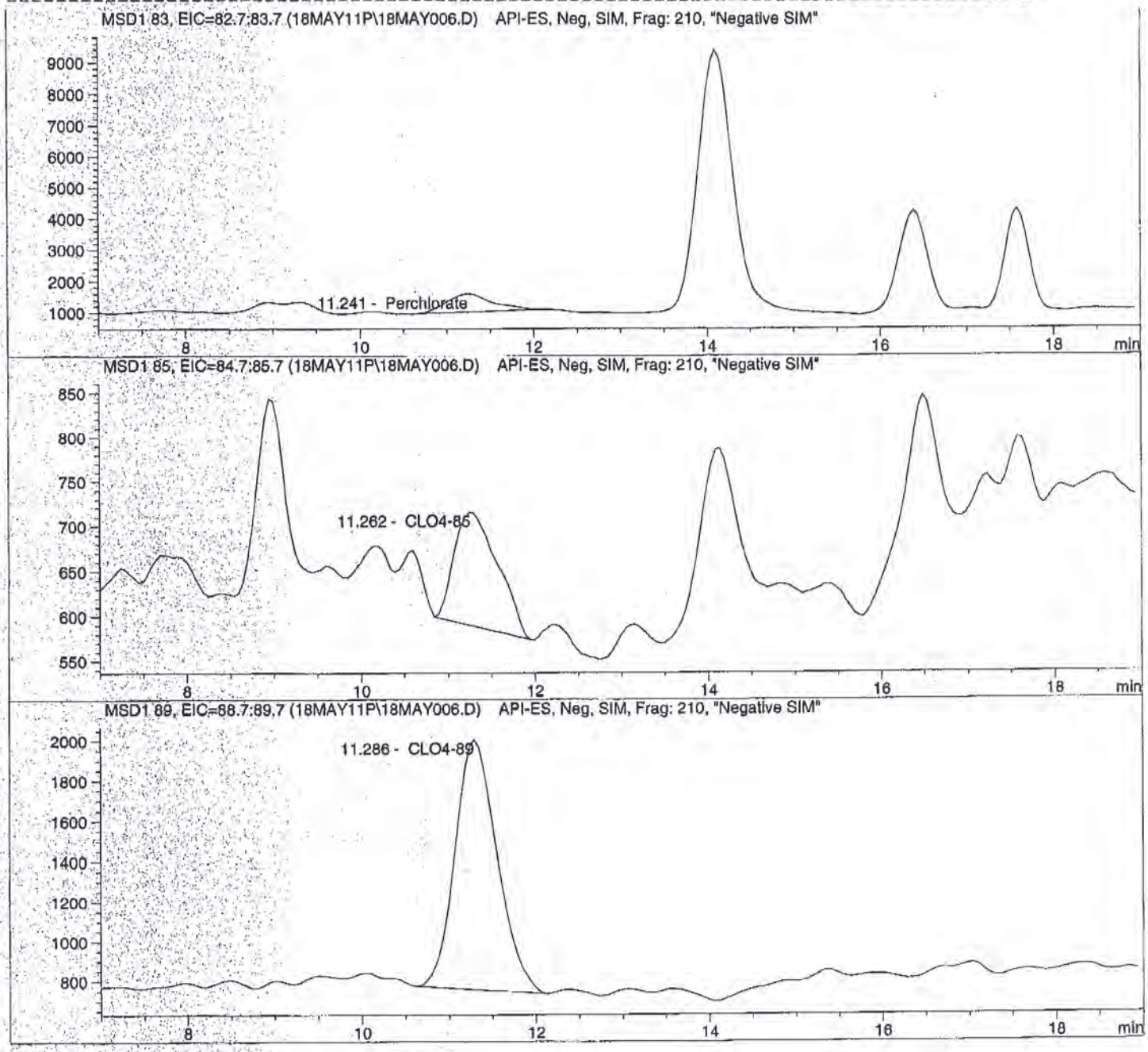
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.241	MM	21702.1	2.0219	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.262	VB	4404.0	1.2950	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.286	PBA	41964.6	5.0000	CLO4-89

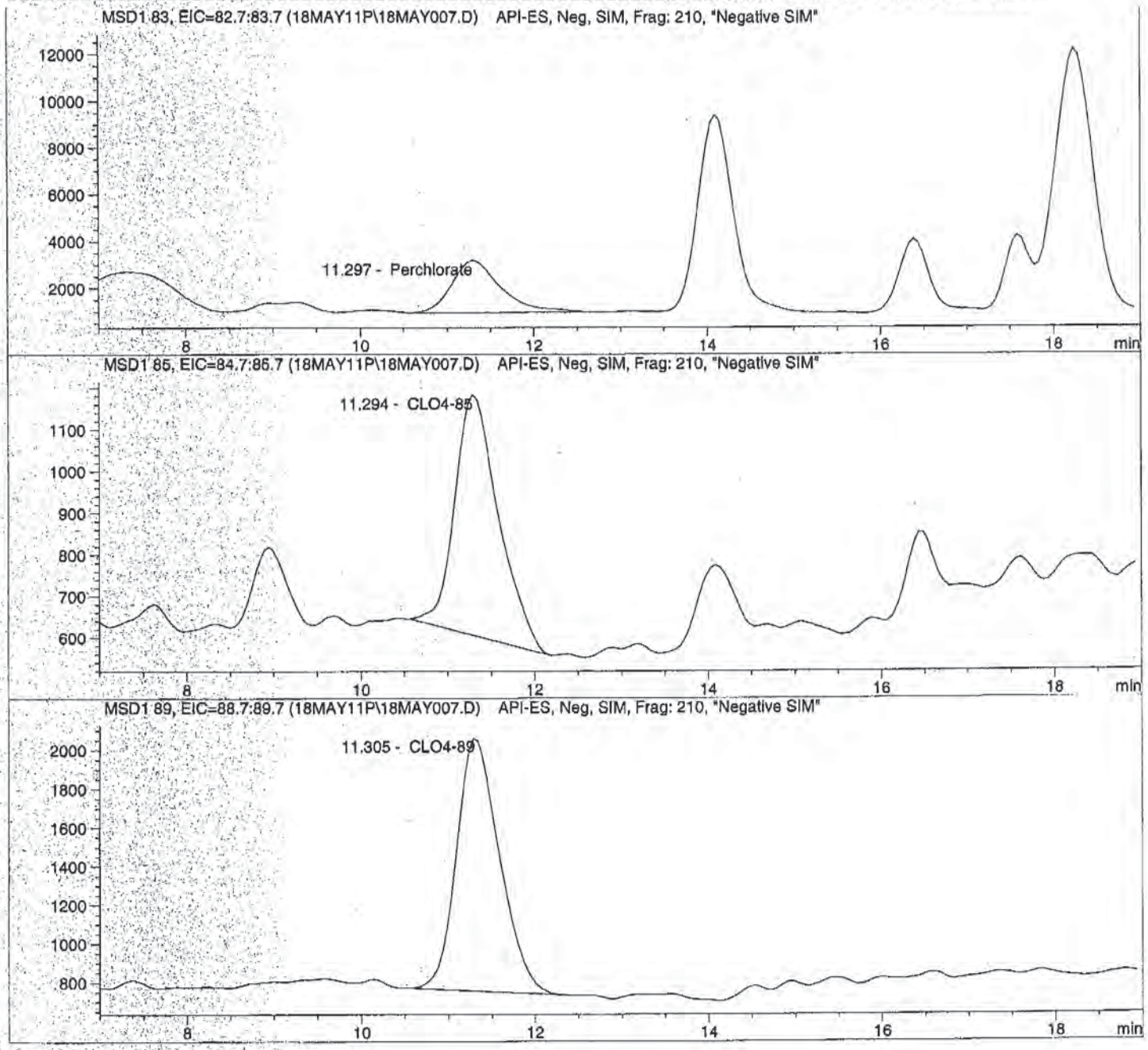
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.297	VBA	88103.8	7.5273	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.294	MM	20317.3	5.7841	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	MM	44922.2	5.0000	CLO4-89

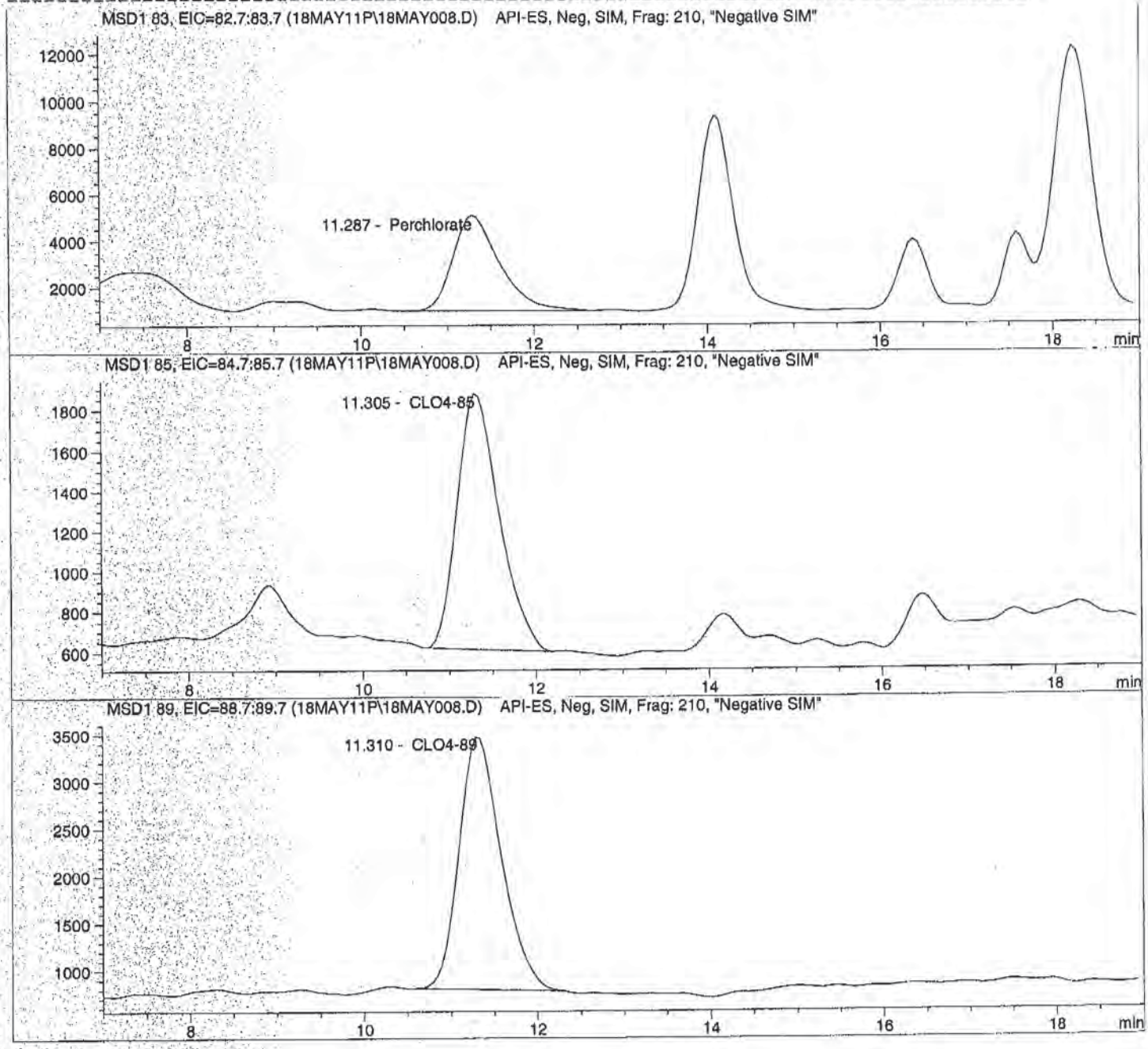
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date:	5/18/2011 18:30:40	Seq Line:	8
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date:	5/18/2011 18:30:40	Seq Line:	8
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.287	MM	154465.8	6.5517	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	PBA	42800.9	6.0272	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.310	MM	90780.9	5.0000	CLO4-89

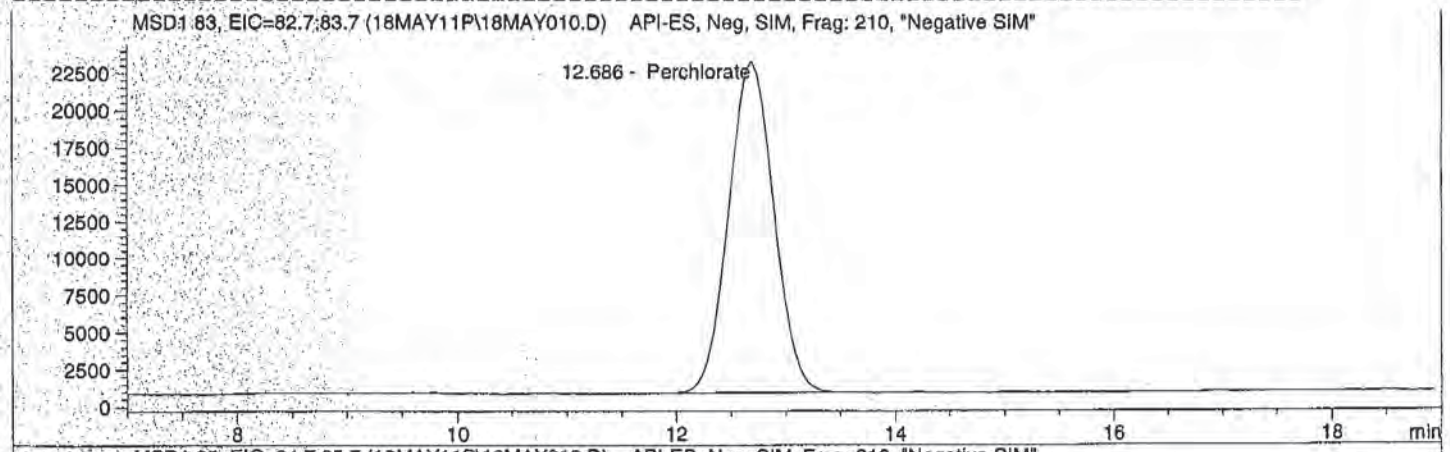
*** End of Report ***

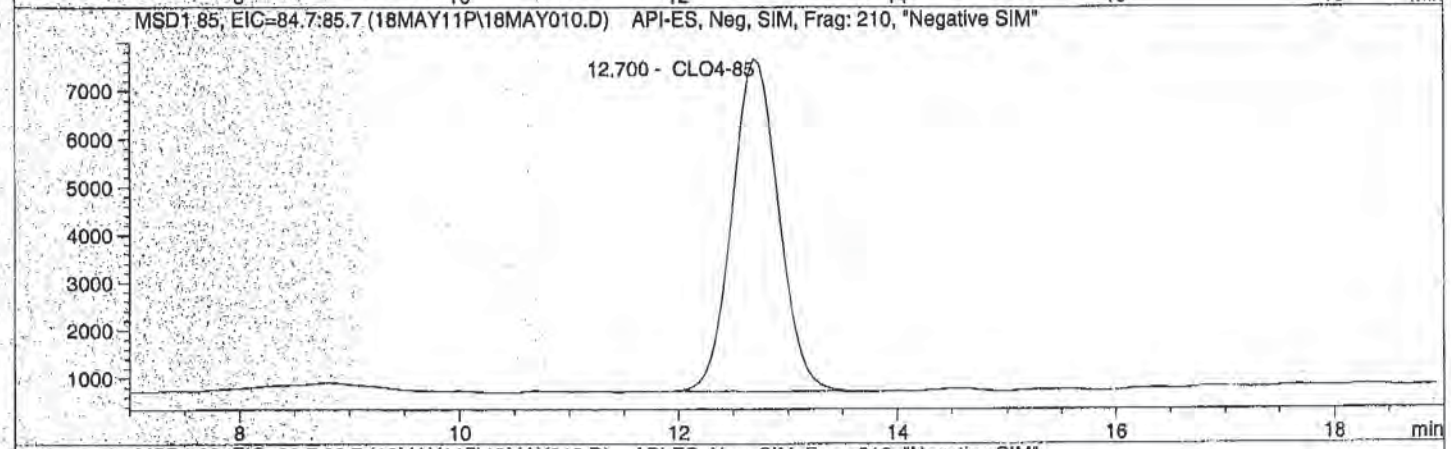
Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

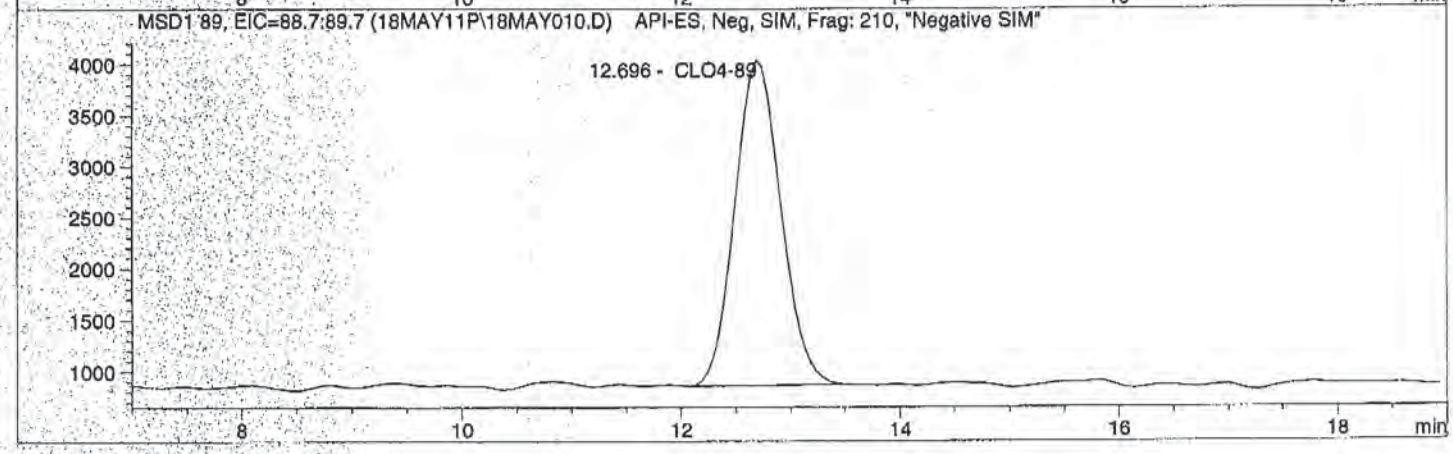
Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

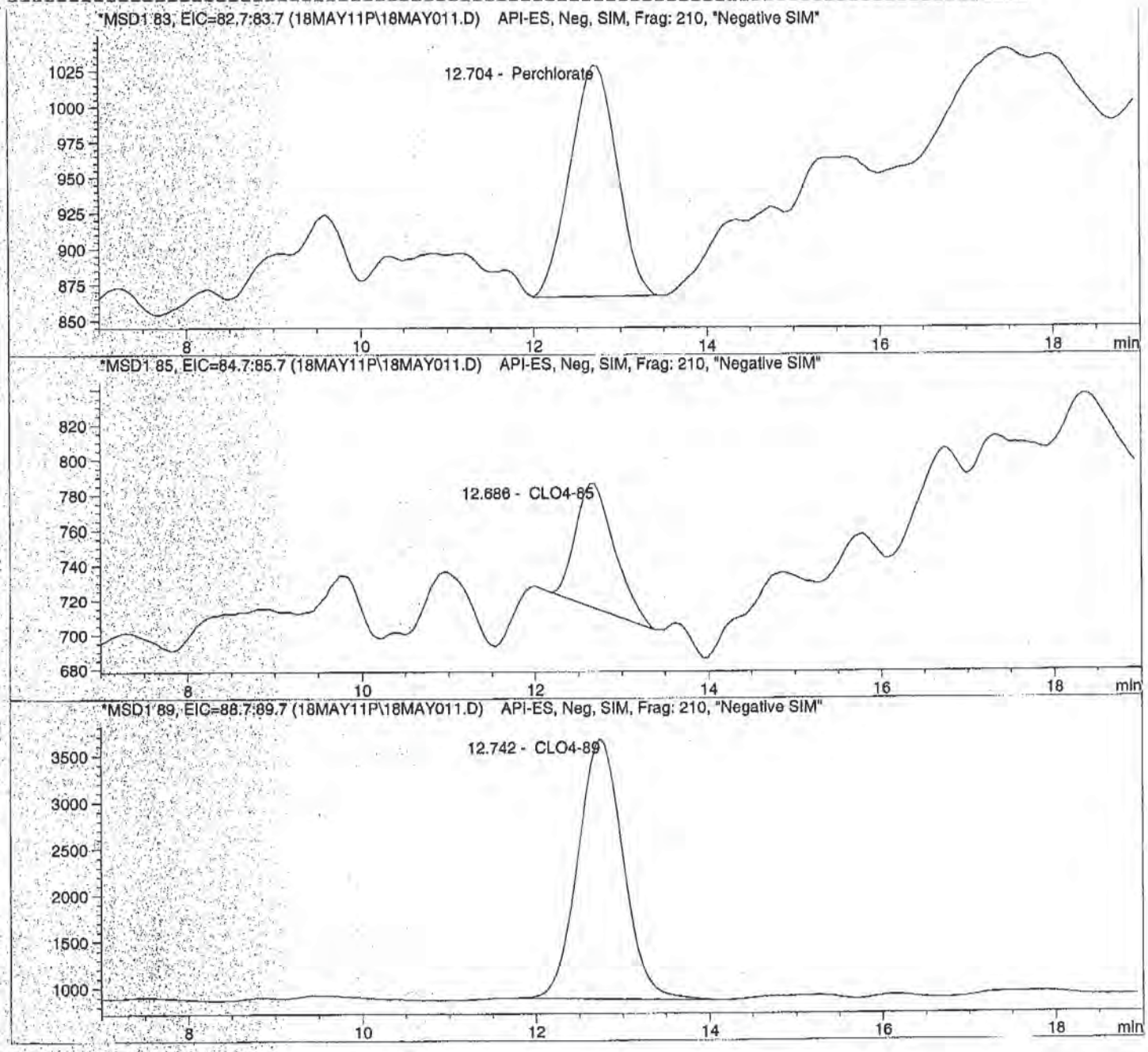
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

[' # ' ==> Run has not been reprocessed with Batch Review Method
' * ' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85212

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.00000
*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.00000
*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.00000
*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.00000
*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.00000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

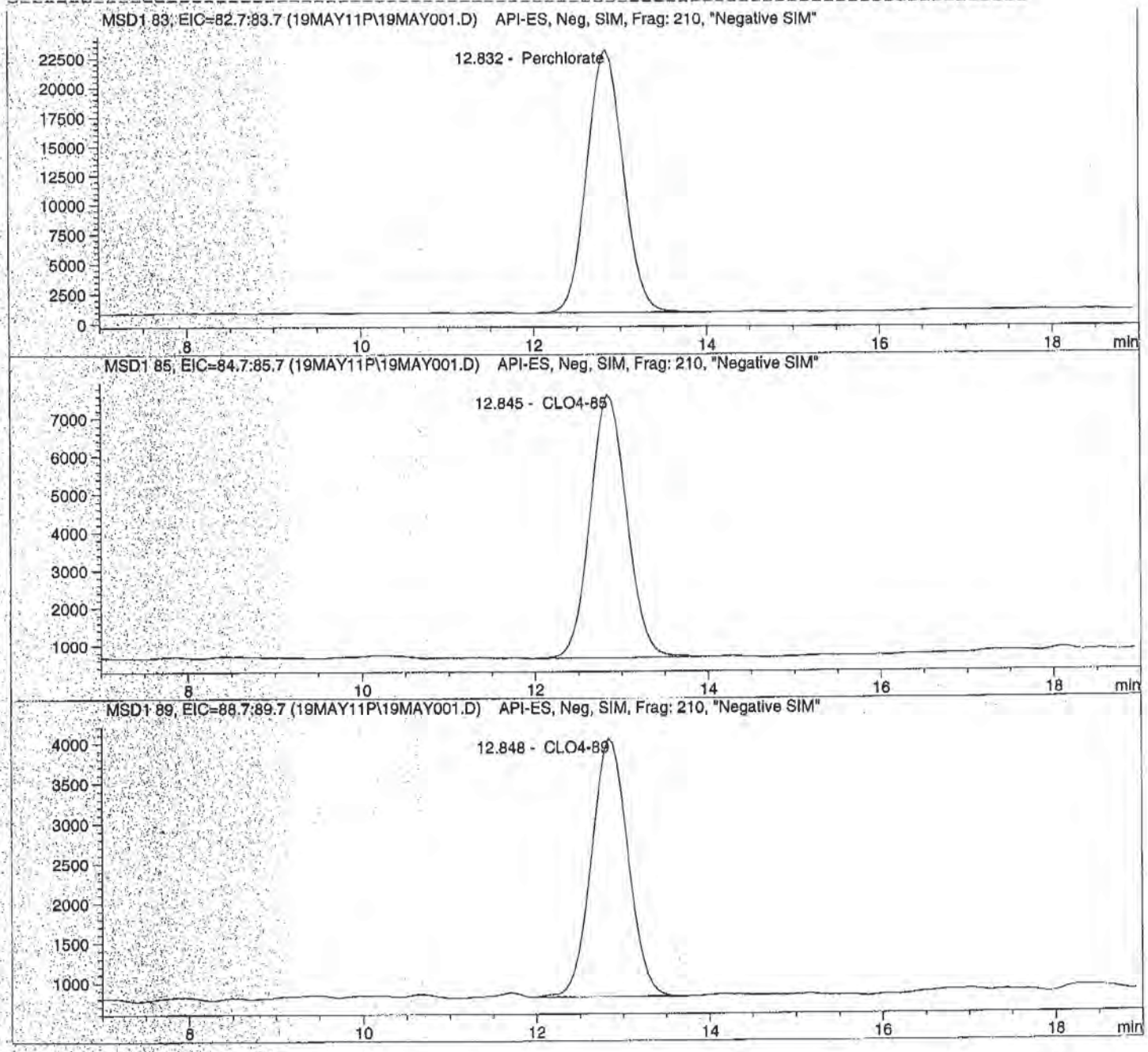
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544 CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001 5X	CLO4-ON	1	Sample		
3	Vial 7	219409 136181S	CLO4-ON	1	Sample		
4	Vial 8	219410 136181D	CLO4-ON	1	Sample		
5	Vial 1	219545 CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

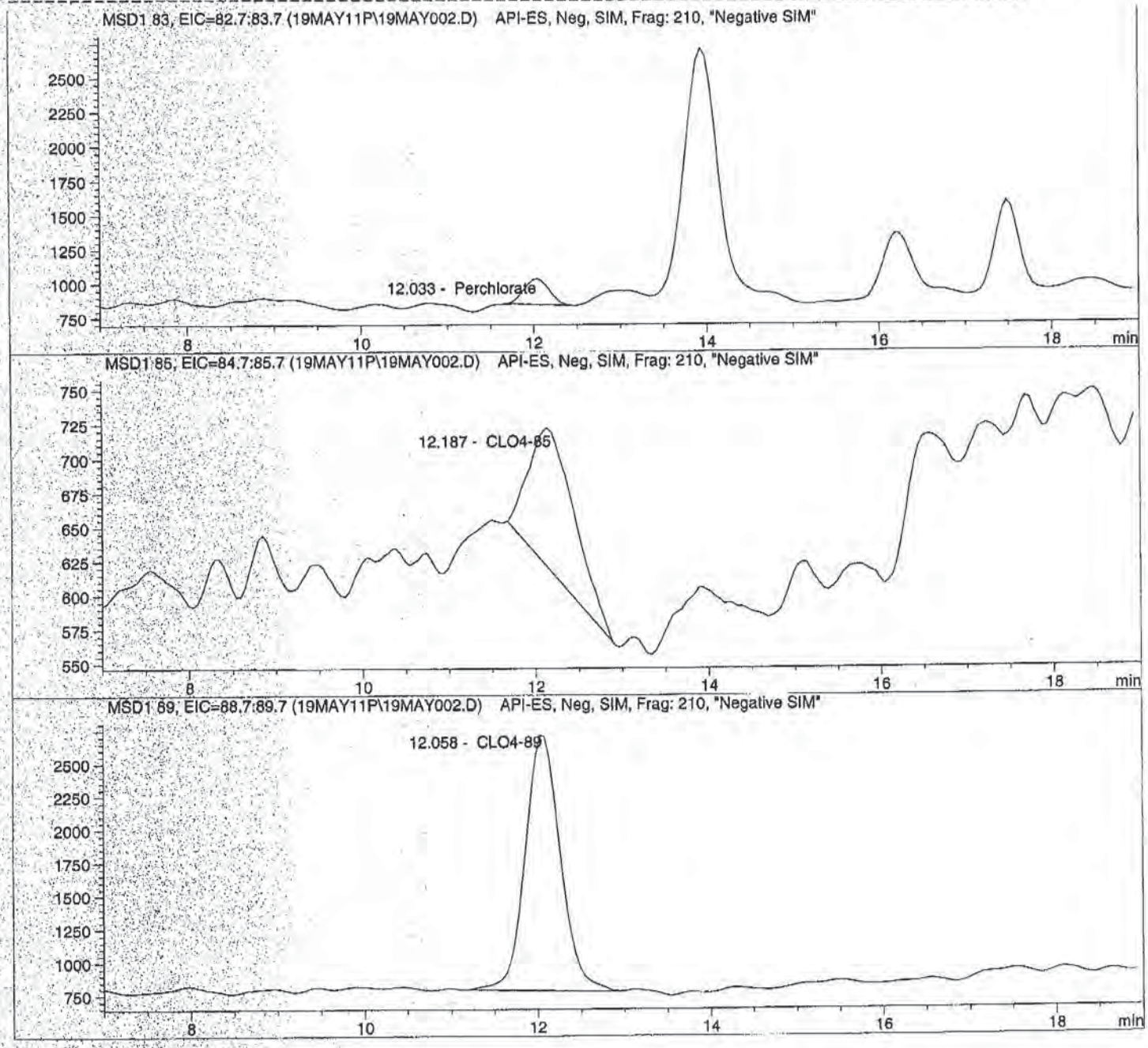
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

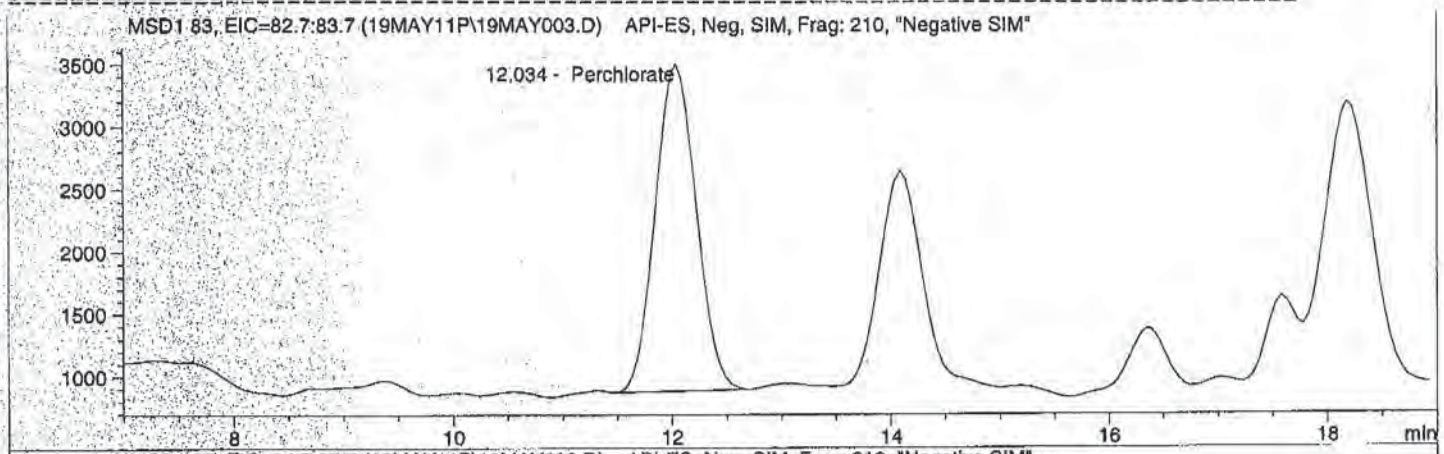
*** End of Report ***

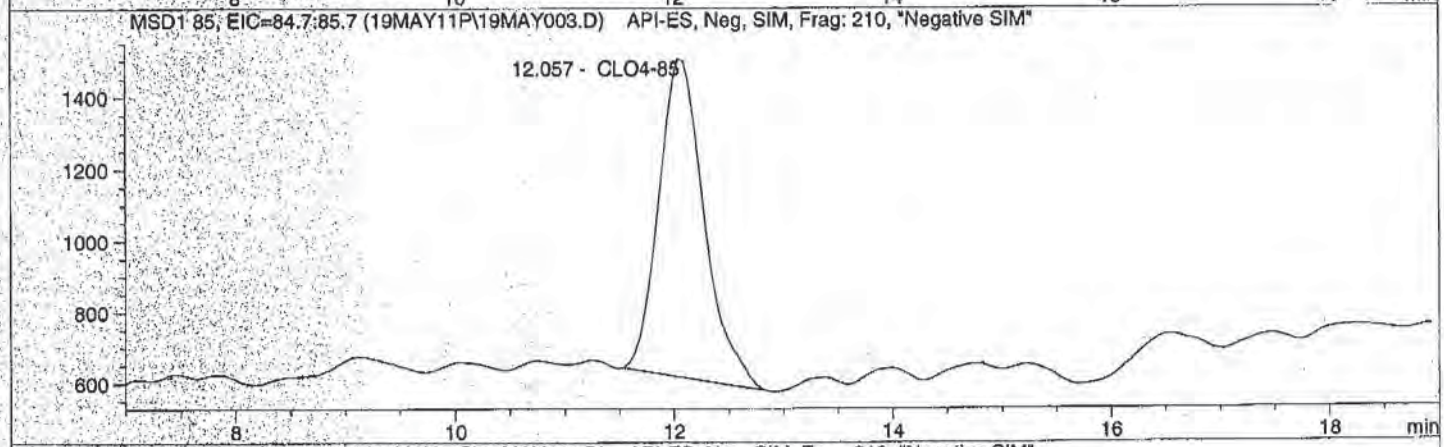
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

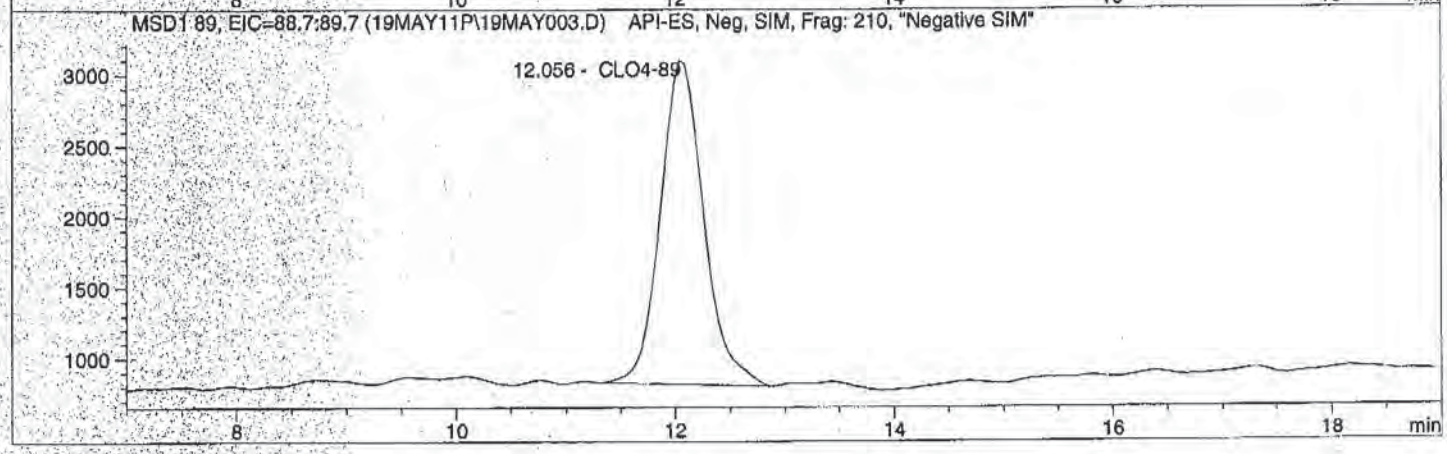
Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

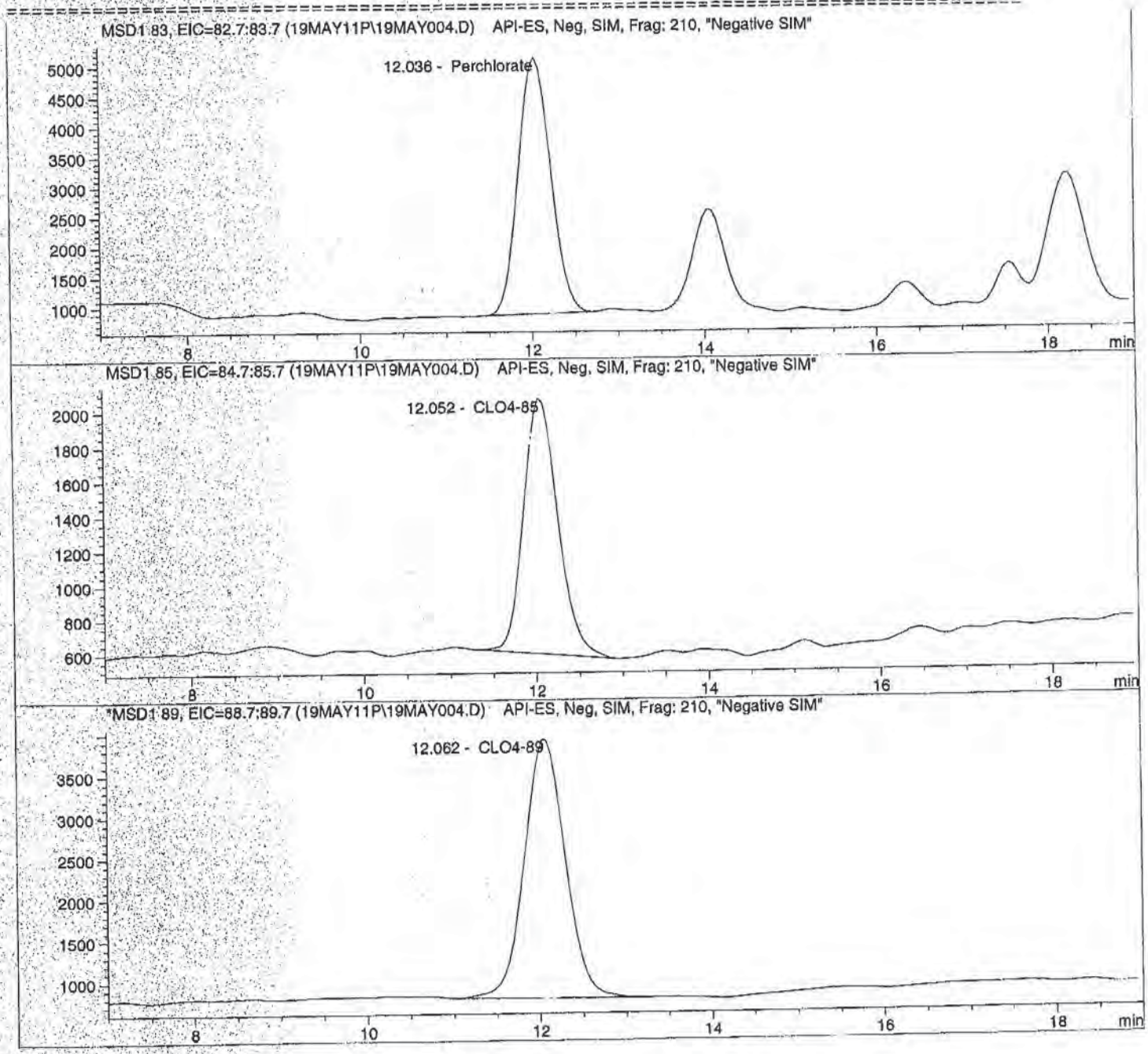
*** End of Report ***

Data File: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

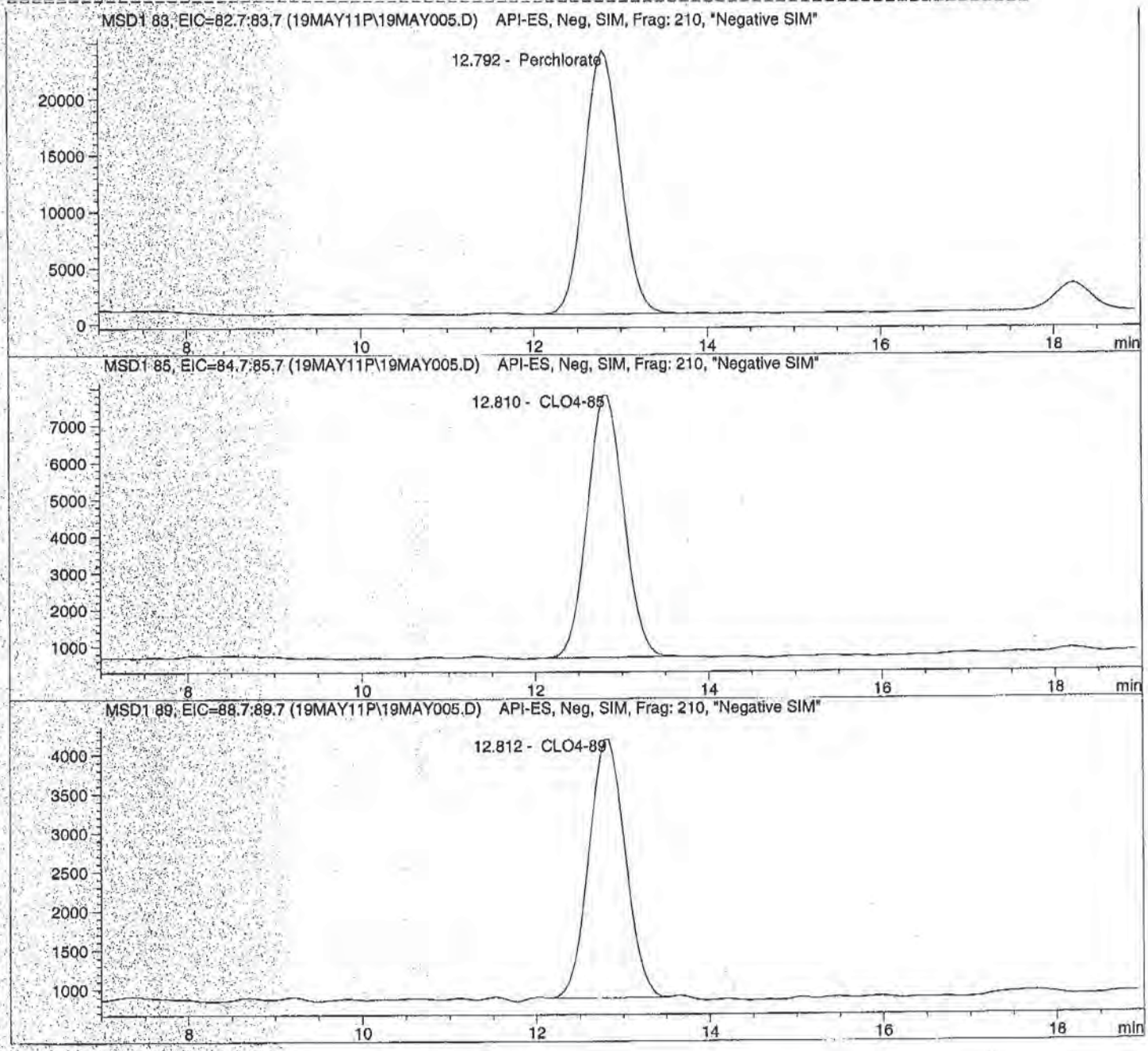
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5		1	Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5		1	CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

ethod C:\HPCHEM\1\METHODS\CLO4OFF1.M

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
- Time Window : From 10.107 min To 18.107 min
- Curve Type : Quadratic
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.25
  - Level 3 : 0.04
  - Level 4 : 0.01
  - Level 5 : 0.0004
  - Level 6 : 0.0001
  - Level 7 : 0.000016
  - Level 8 : 4e-006

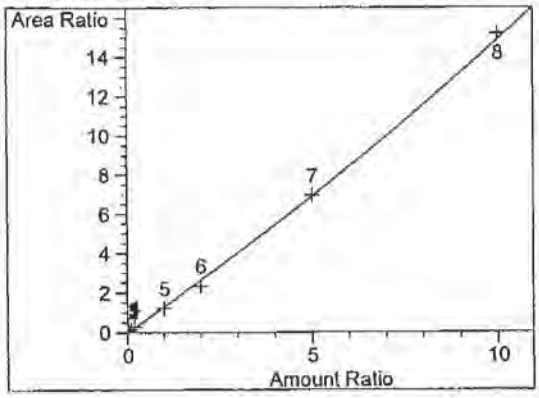
Compound: CLO4-89
- Time Window : From 10.065 min To 18.065 min
- Curve Type : Linear
- Origin : Included
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 1
  - Level 4 : 1
  - Level 5 : 1
  - Level 6 : 1
  - Level 7 : 1
  - Level 8 : 1

Compound: CLO4-85
- Time Window : From 10.121 min To 18.121 min
- Curve Type : Quadratic
- Origin : Ignored
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.5
  - Level 3 : 0.2
  - Level 4 : 0.1
  - Level 5 : 0.02
  - Level 6 : 0.01
  - Level 7 : 0.004
  - Level 8 : 0.002

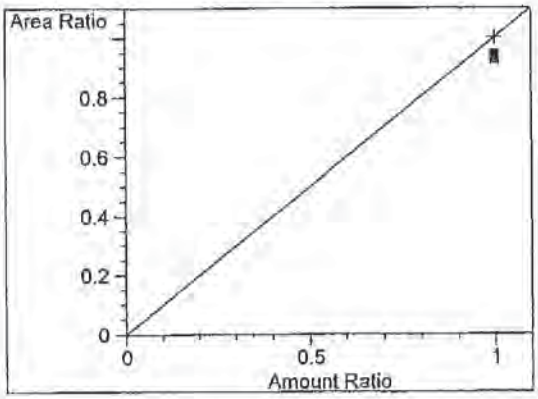
Peak Sum Table

No Entries in table

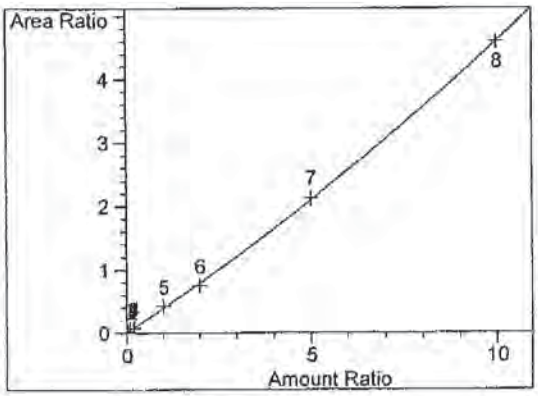
Calibration Curves



Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

Sequence Table:

Method and Injection Info Part:

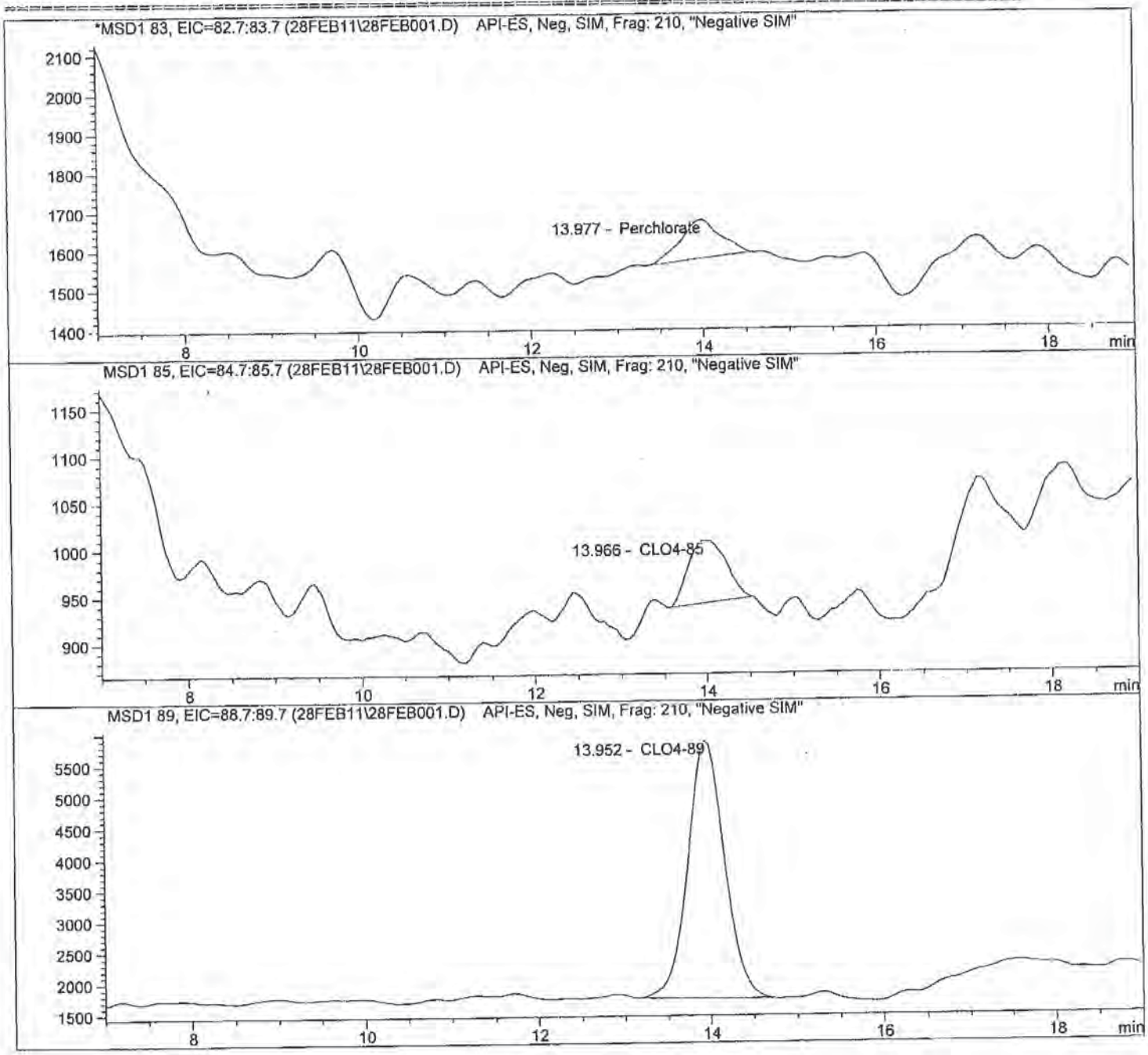
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

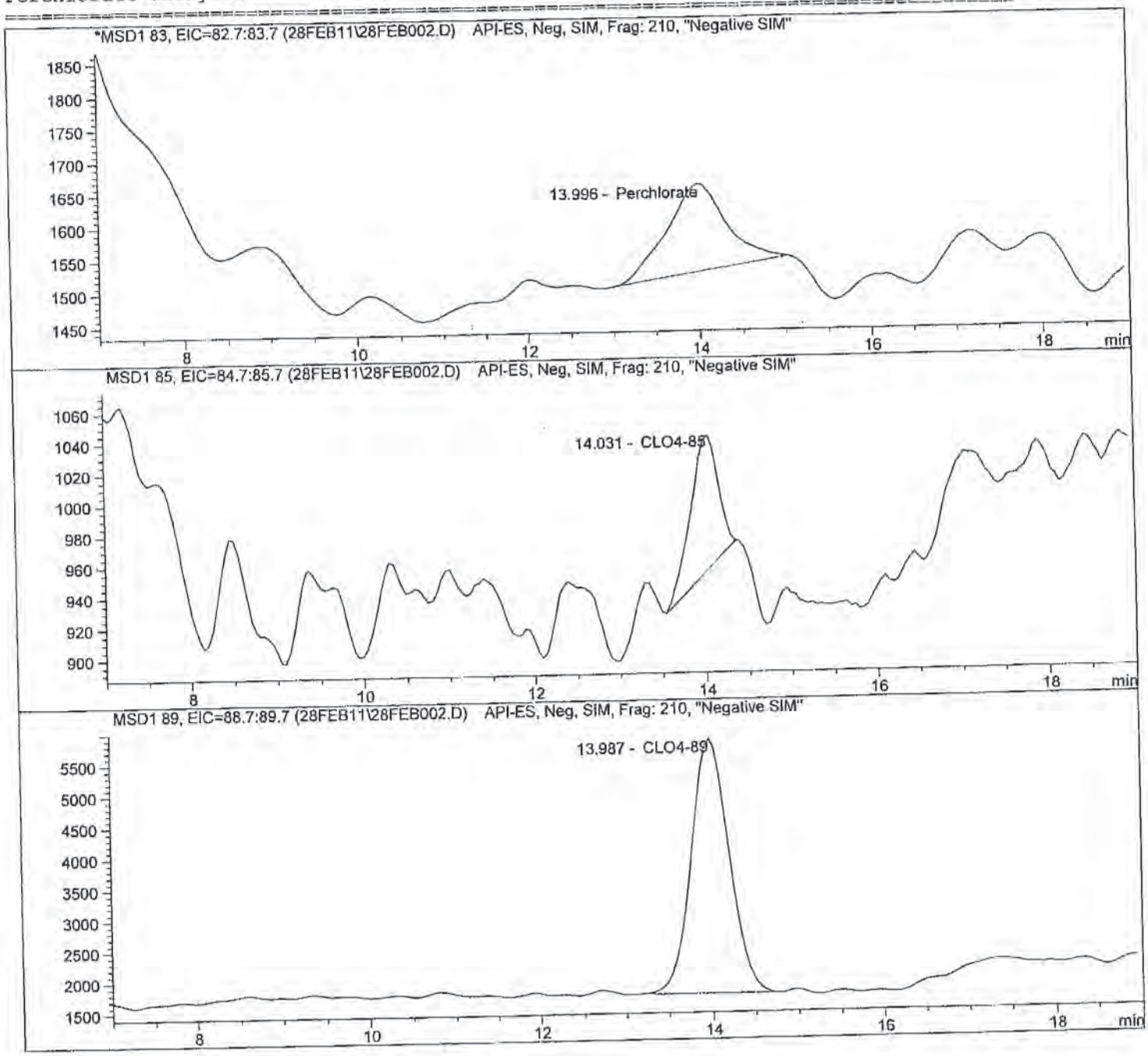
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

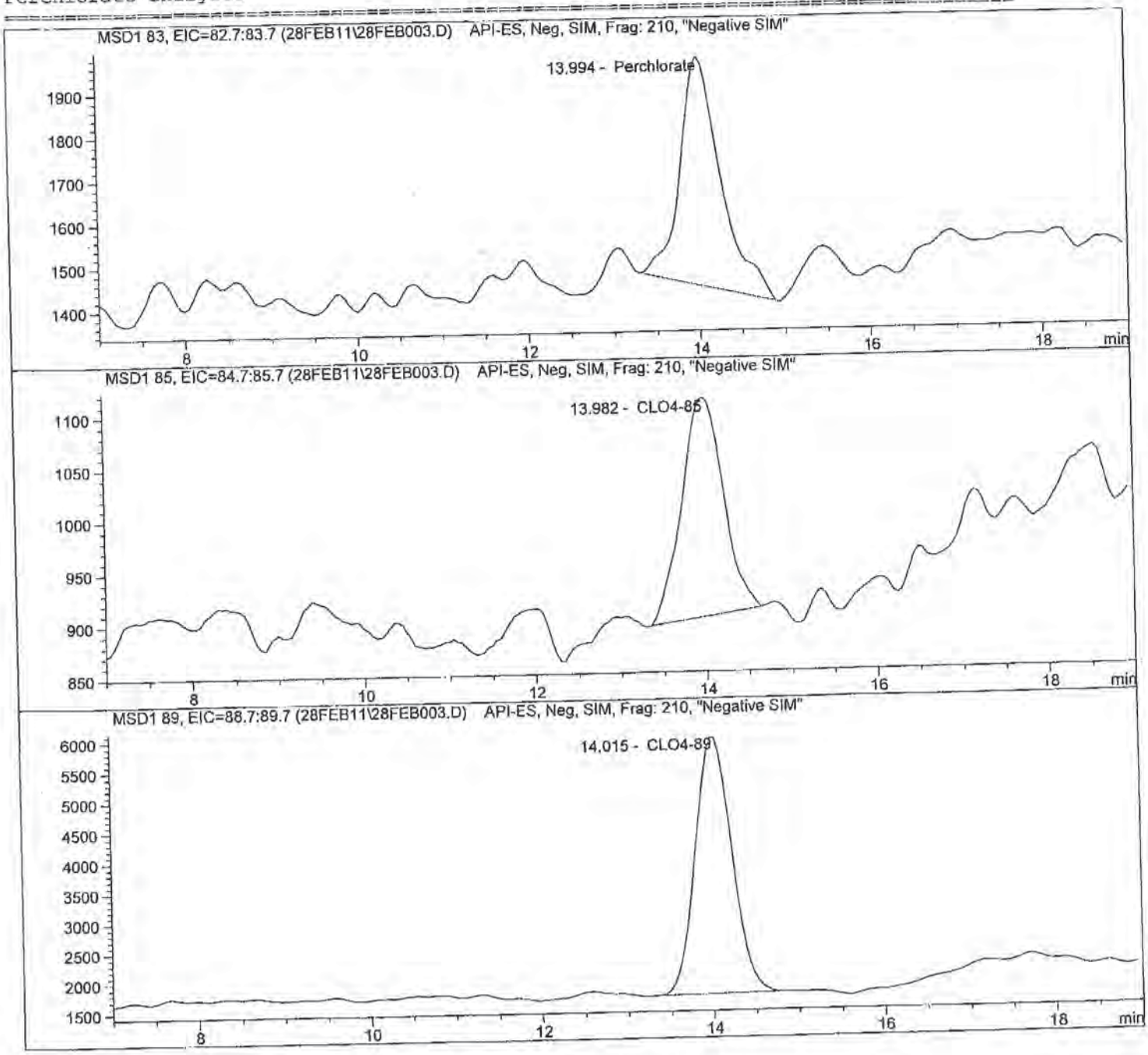
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

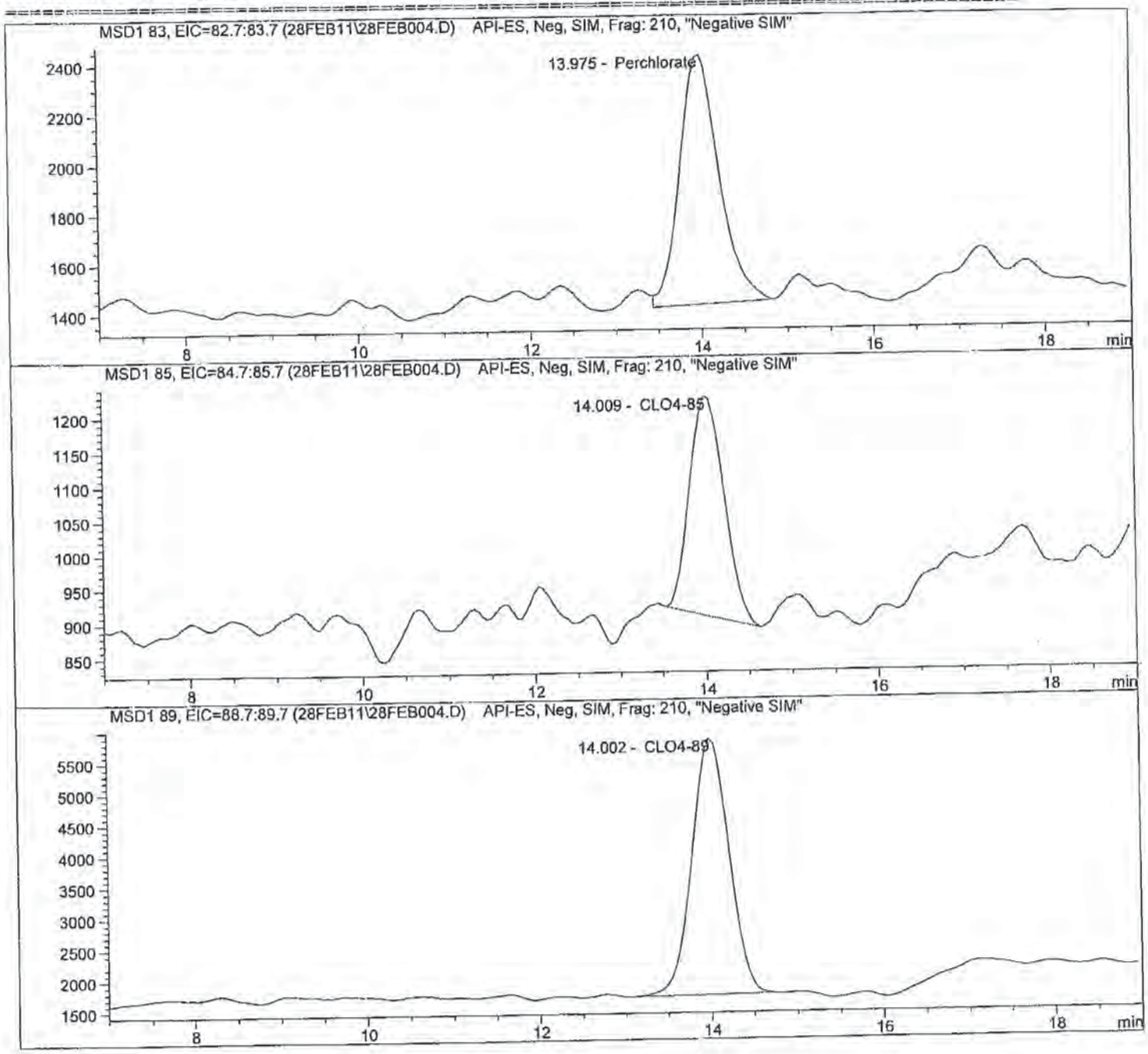
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

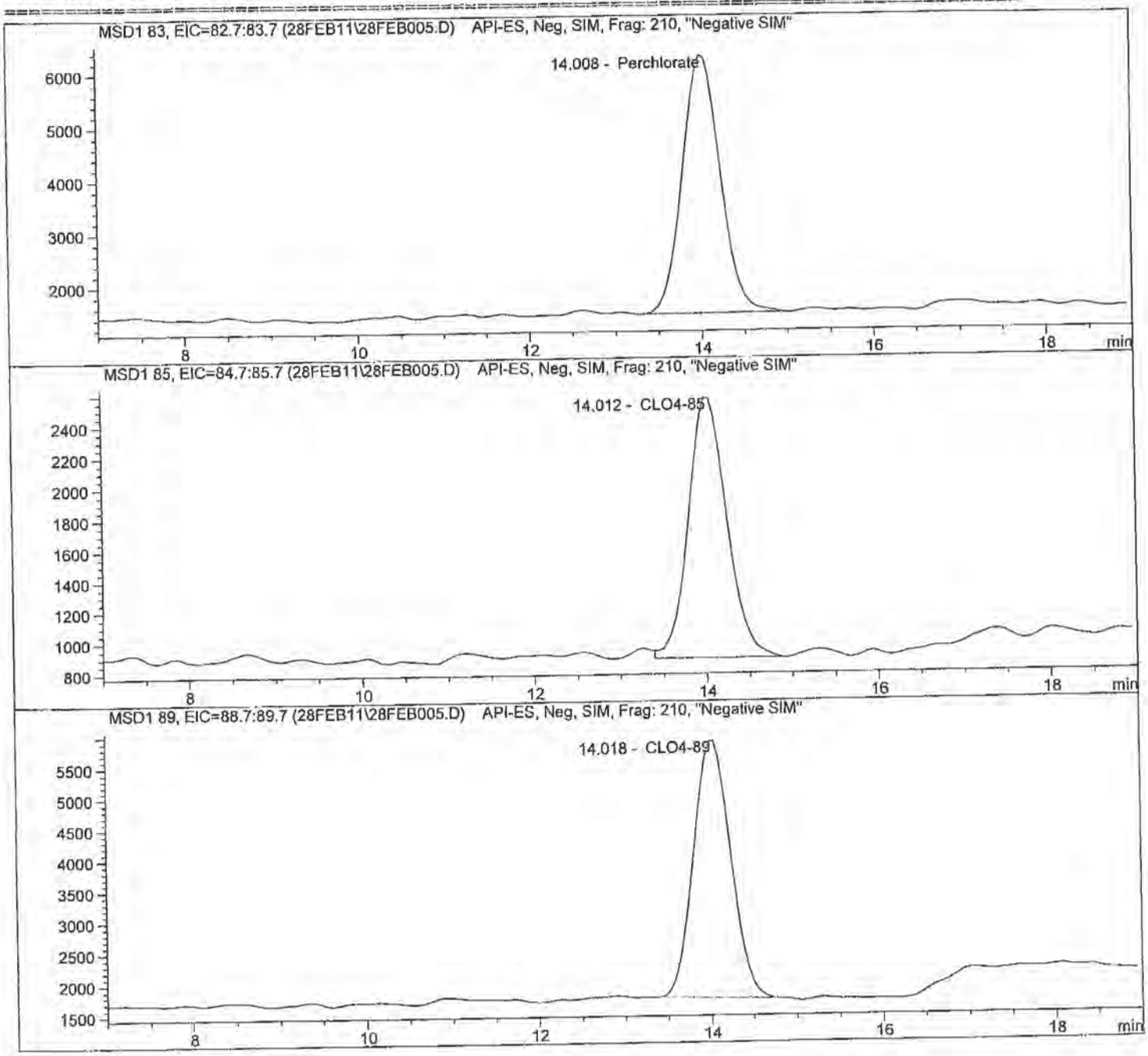
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

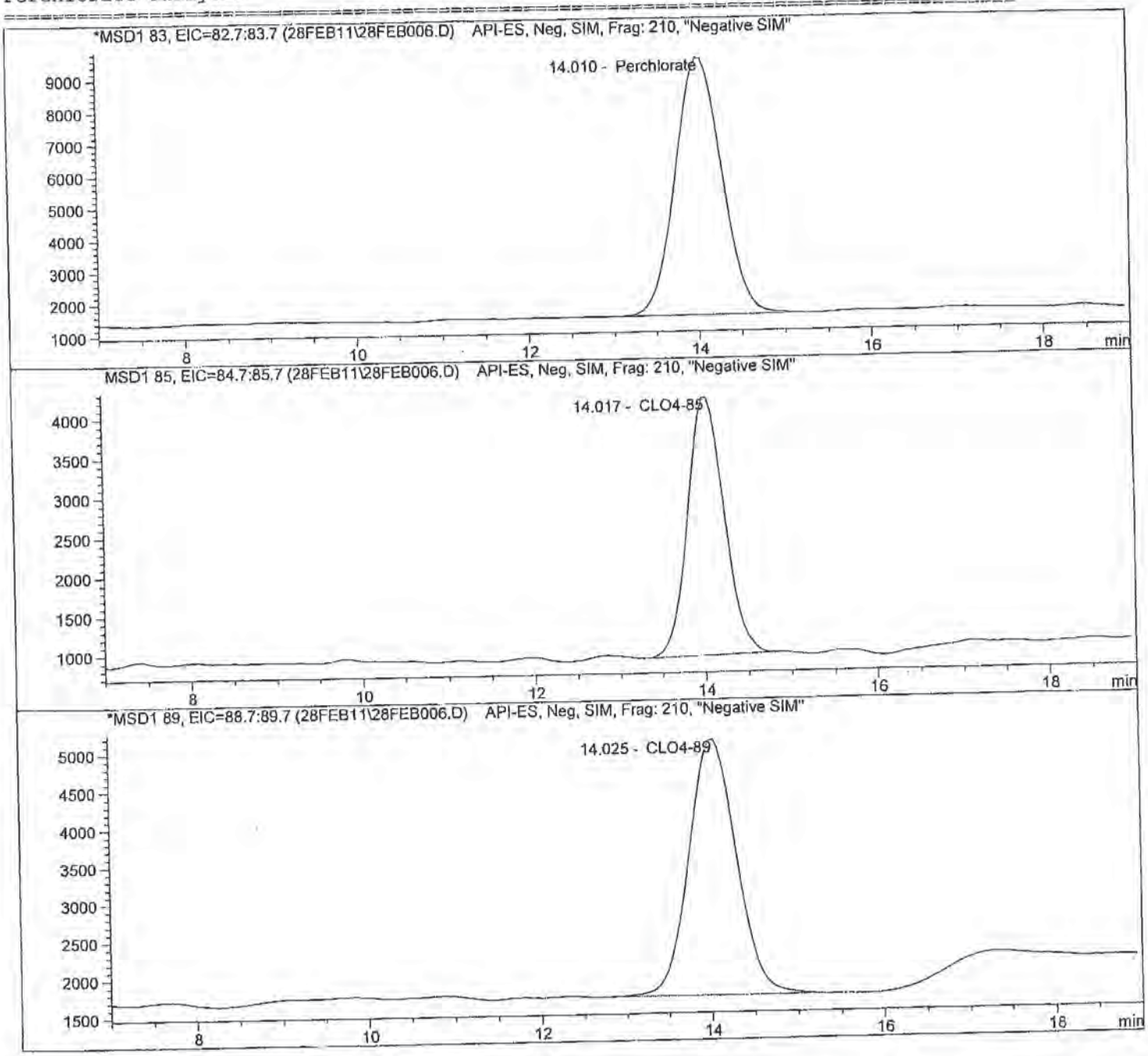
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

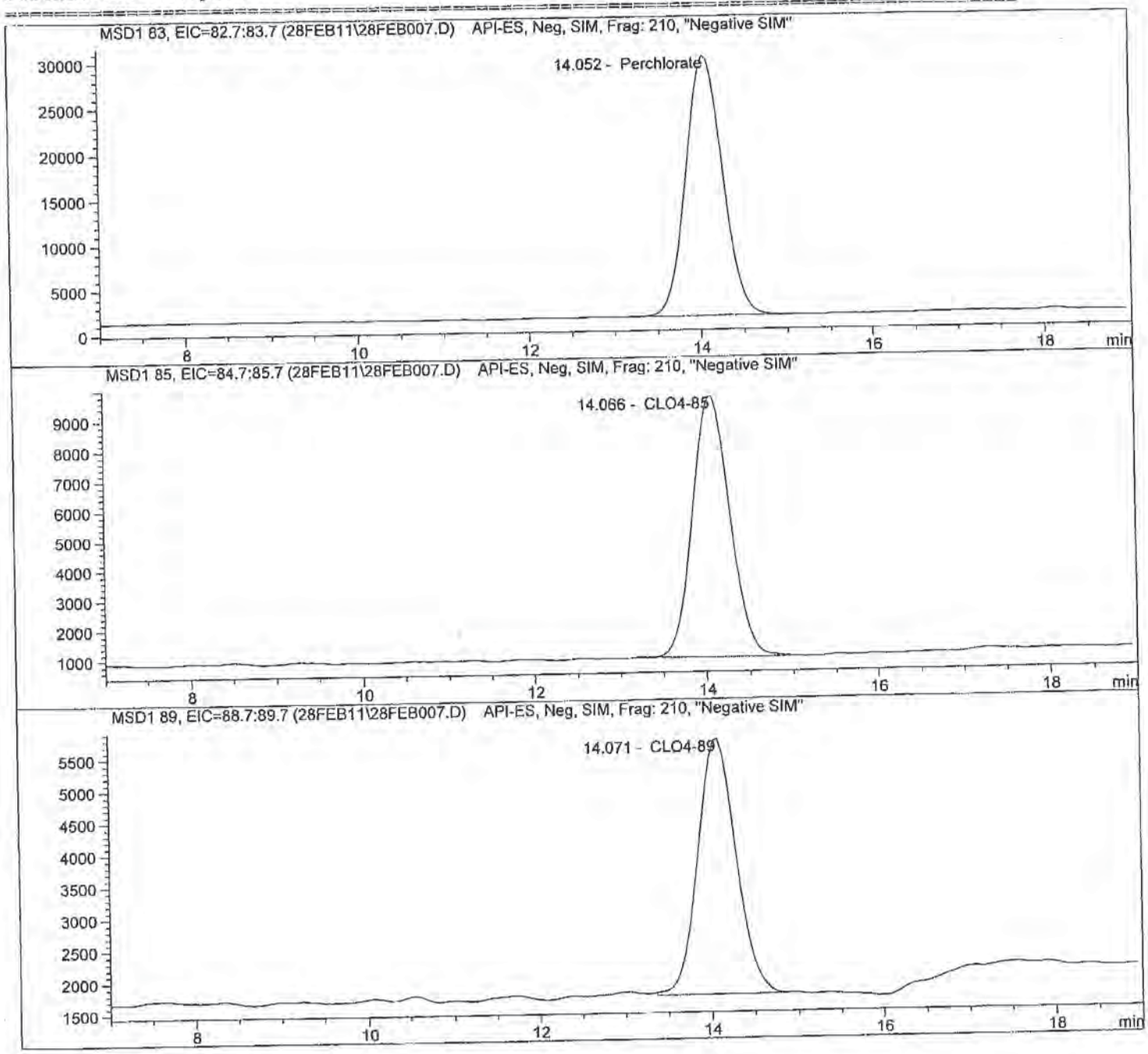
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

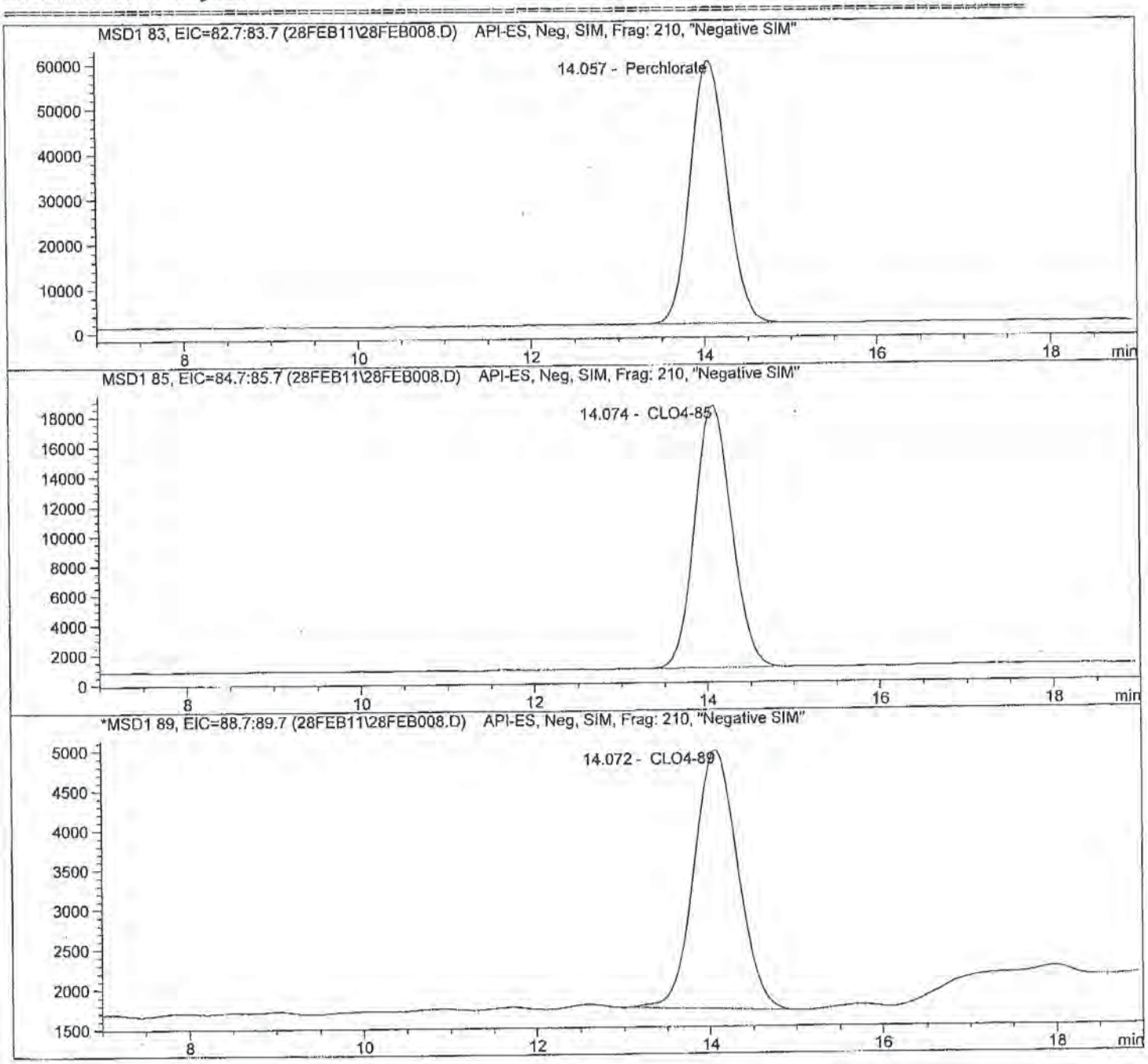
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

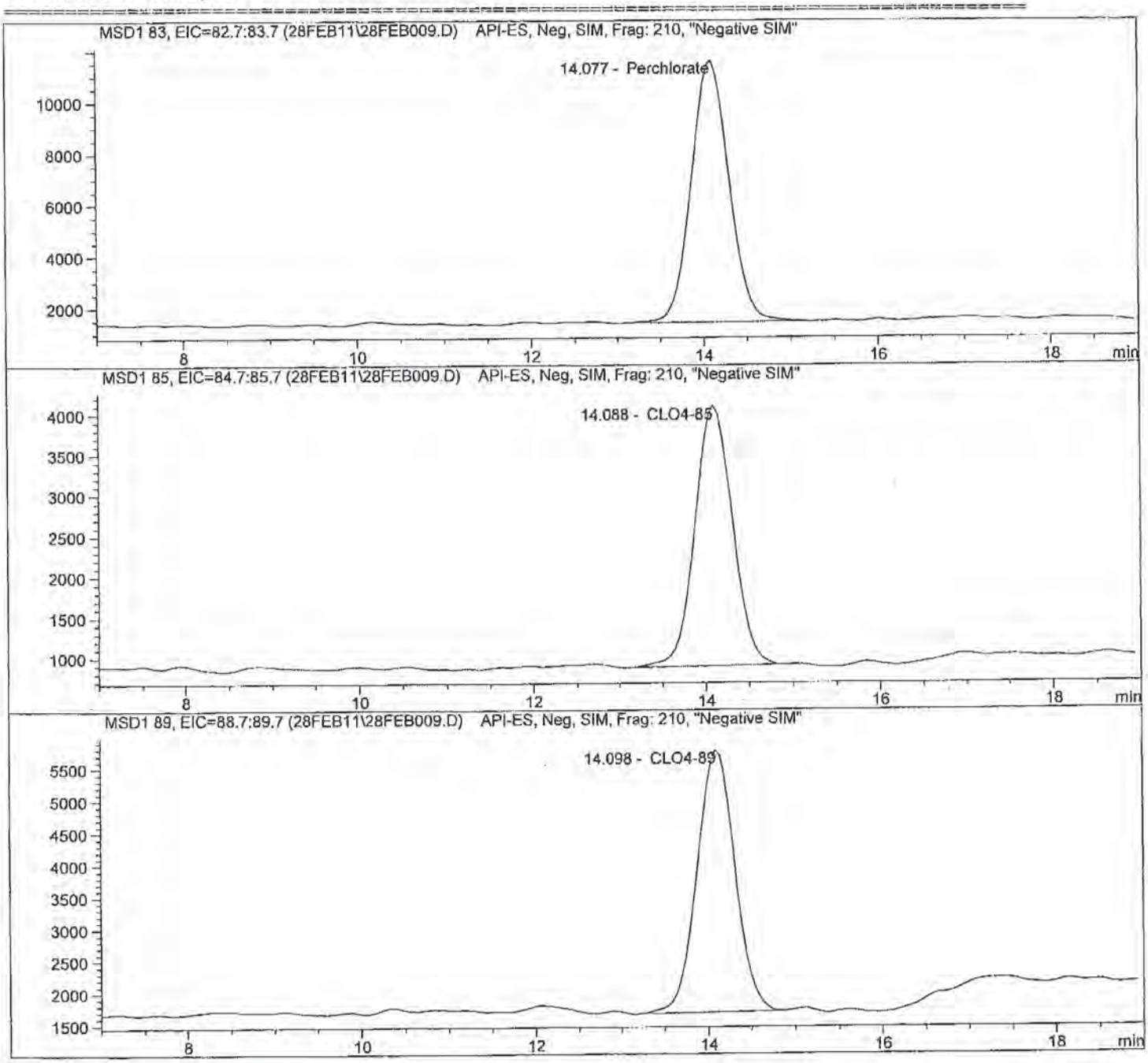
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113618**
Project ID: F82298X
Purchase Order: F82298X

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MWQ 22	1113618001	05/11/11	05/14/11	F82298X

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113618

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011

Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MWQ 22**	Sampling Site: F82298X	Collected: 05/11/2011
Lab ID: 1113618001	Media: 250 mL Nalgene	Received: 05/14/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/19/2011 10:48	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	1.4	1.0	10	5	J

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	Peer Review

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at http://health.utah.gov/lab/labimp/labcert/envlabcert.html. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

1113618

ACCUTEST Laboratories

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

41810 / # 1 1113618

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F82298X
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	PERCHLORATE 6850	LAB USE ONLY
1	MWQ 22	05/11/11	11:01		GW	1		X								X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
Dwl
05-Nov11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - AS
Approved by -

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
2	05-11-11 1200	2	3 FR		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: F82298X | **Split:** | **Workorder ID:** 1113618

Client: Accutest Laboratories | **Account:** 8001

Comments:

Requested Analysis: EPA 8650

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Type: 250Poly / Preservatives: COOL	Containers ID(s)	Containers Count	EPA 8650
1	05/11/2011 11:01	MWQ 22	1113618001		Water		A	1	A
2									
3									
4									
5									
6									
7									
8									
9									
10									

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Warath, Julie	05/14/2011 00:00	ALS Sample Receiving	Sample Login
Julie Warath	5/16/11 1130	13B	storage
R.33.1	5/18/11/1300	Tom Bosch	CLP analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20-1113618-03

2011-05-16-1113618-02

ALS LABORATORY GROUP SALT LAKE CITY CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Pioneer

Project/Task/Site: 1113618

Date/Time of Receipt: 5/14/11 830

Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA Intact/Broken/NA	Location Temp Taken:	Control/Between Samples
Tamper Evident:	Yes/No/NA	Are all temperatures within project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA Frozen/Melted/NA	Are all applicable pHs within specific guidelines?	Yes/No/NA

PH Check:						
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7765	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) Meredith Edwards (Printed Name) 5/14/11 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Sample name MWQ-22 listed on paperwork does not appear on container. It shows F822941 on container.

Faxed to Client? YES ☐ No ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name)

Returned to Sample Receipt by: _____ (Signature)

Date: _____

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified
Basis: DoD QSM V.4.1

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: EPA 6850
Batch: ELMS/1182 (HBN: 66508)
Analyzed By: Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

CCV: 219404 Analyzed: 05/18/2011 16:04 Units: ug/L Criteria: ± 15%				CCV: 219411 Analyzed: 05/18/2011 19:12 Units: ug/L Criteria: ± 15%			CCV: 219544 Analyzed: 05/19/2011 10:27 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

CCV: 219545 Analyzed: 05/19/2011 11:51 Units: ug/L Criteria: ± 15%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

ICS: 219406 Analyzed: 05/18/2011 16:46 Units: ug/L Criteria: ± 30%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

LODV: 219405 Analyzed: 05/18/2011 16:25 Units: ug/L Criteria: ± 30%				LODV: 219412 Analyzed: 05/18/2011 19:33 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	0.159	0.1	*159	0.237	0.1	*237

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	Peer Review	Date

Symbols and Definitions

* - See Comments section for more information

▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: **ELMS/ 1182**
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850...3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850....3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850...3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	6/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence: \\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:
Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation.
Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description: 6850 Working Standard

Standard:	10684	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT					Description - 6850 Intermediate Stock
Standard:	10683	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O				Description: ASTM Type II Water	
Standard:	109	Expires:	11/7/2015	Usable:	Yes
Lab Lot:	LAB 109	Created By:	ALS Support (Lims)	Amount:	100 L
Part ID:		Create Date:	10/6/2005	Validated By:	
MFG:	DCL In House	MFG Lot:		Validated Date:	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK				Description - 6850 Stock Standard	
Standard:	7186	Expires:	11/30/2011	Usable:	Yes
Lab Lot:	CLO4 STOCK	Created By:	T. Bosch	Amount:	250 mL
Part ID:	IC-PER-10X-1	Create Date:	2/8/2010	Validated By:	
MFG:	AccuStandard	MFG Lot:	209115027	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK					Description: 6850 QC Working Standard
Standard:	10687	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK				Description: 6850 QC Stock Standard	
Standard:	10685	Expires:	5/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC STOCK	Created By:	T. Bosch	Amount:	100 mL
Part ID:	ICC-013	Create Date:	2/10/2011	Validated By:	
MFG:	Ultra Scientific	MFG Lot:	L00429	Validated Date:	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT					Description - 6850 QC Intermediate Standard
Standard:	10686	Expires:	05/31/2014	Usable:	Yes
Lab Lot:	CLO4 QC INT 02/05/09	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

A2LA ACCREDITED

ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK				Description - Perchlorate ISTD Wrk	
Standard:	10682	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4ISTDWRK	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	T. Bosch
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description - Perchlorate ISTD Stock	
Standard:	3915	Expires:	9/28/2017	Usable:	Yes
Lab Lot:	CLO4ISTDSTK	Created By:	T. McKay	Amount:	1 mL
Part ID:	OLM-7310-1.2	Create Date:	2/5/2009	Validated By:	T. Bosch
MFG:	Cambridge Isotope	MFG Lot:	SCHI-001	Validated Date:	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: PERCHLORIC ACID, SODIUM SALT
(Isotopic Label & Enrichment Specification) (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

S 3915

Product Information

Chemical Purity Specification:	≥98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 μg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 μg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorat Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547	24.4933
*	219405 LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549	1.59442e-
*	219406 ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539	8.46863e-
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.0000
*	219408 LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685	4.5082
*	1113618001	Vial 6	1	18MAY006.D	2.17021e4	11.241	2.0218
*	219409 136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297 NR	7.5273
*	219410 136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287	6.5517
*	1113713001	Vial 9	1	18MAY009.D	3.58555e5	10.925	19.5730
*	219411 CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686	25.1600
*	219412 LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704	2.36525e-

NR. Not Reported

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-8 Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.8003
*	219405 LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-
*	219406 ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-
*	219407 LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.0000
*	219408 LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.8749
*	1113618001	Vial 6	1	18MAY006.D	4403.96973	11.262	1.2950
*	219409 136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.7841
*	219410 136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.0272
*	1113713001	Vial 9	1	18MAY009.D	1.18943e5	10.937	21.3256
*	219411 CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.3223
*	219412 LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-8 Amoun
*	219404 CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.0000
*	219405 LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.0000
*	219406 ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.0000
*	219407 LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.0000
*	219408 LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.0000
*	1113618001	Vial 6	1	18MAY006.D	4.19646e4	11.286	5.0000
*	219409 136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.0000
*	219410 136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.0000
*	1113713001	Vial 9	1	18MAY009.D	6.75993e4	10.934	5.0000
*	219411 CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.0000
*	219412 LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.0000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

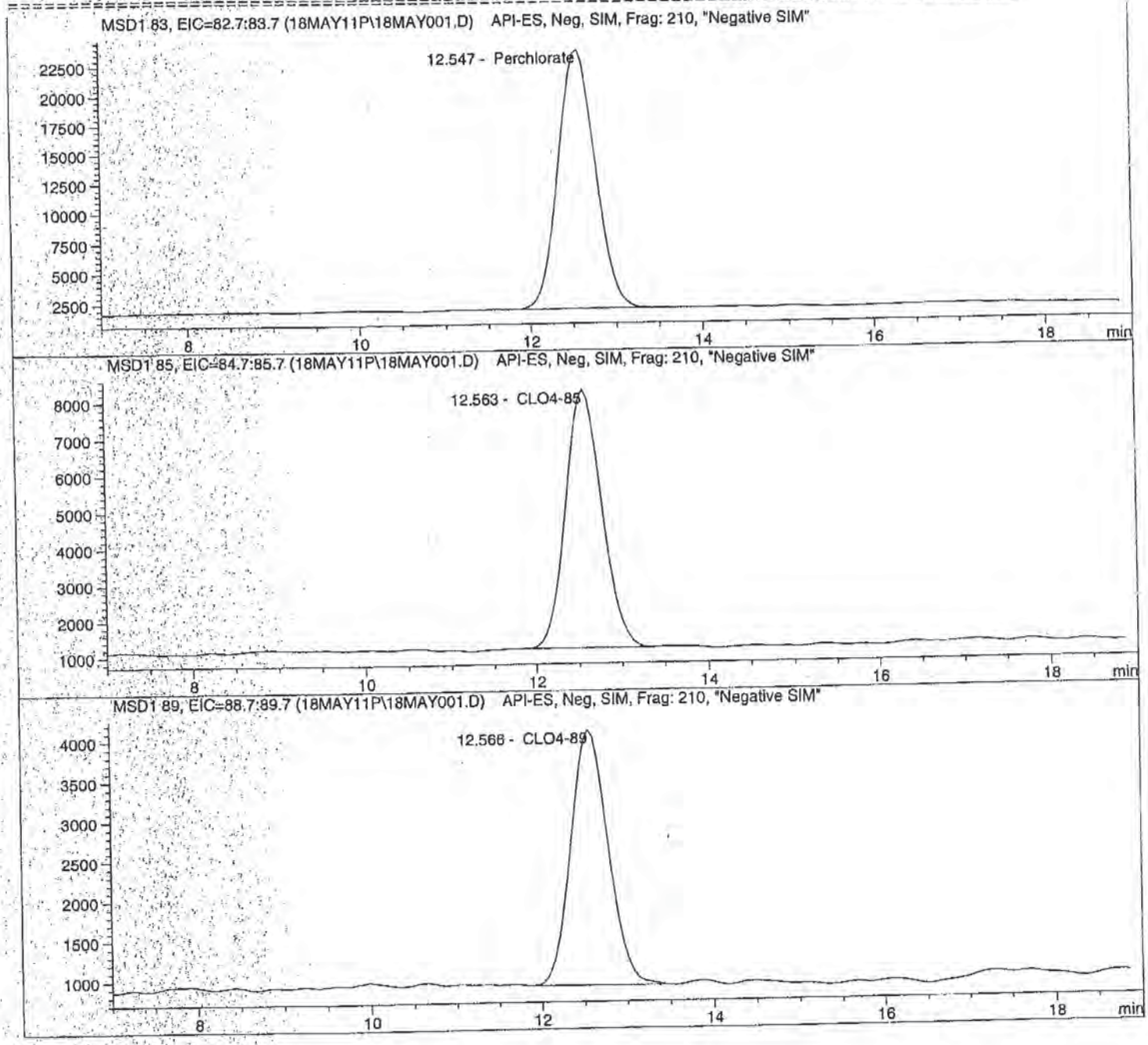
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

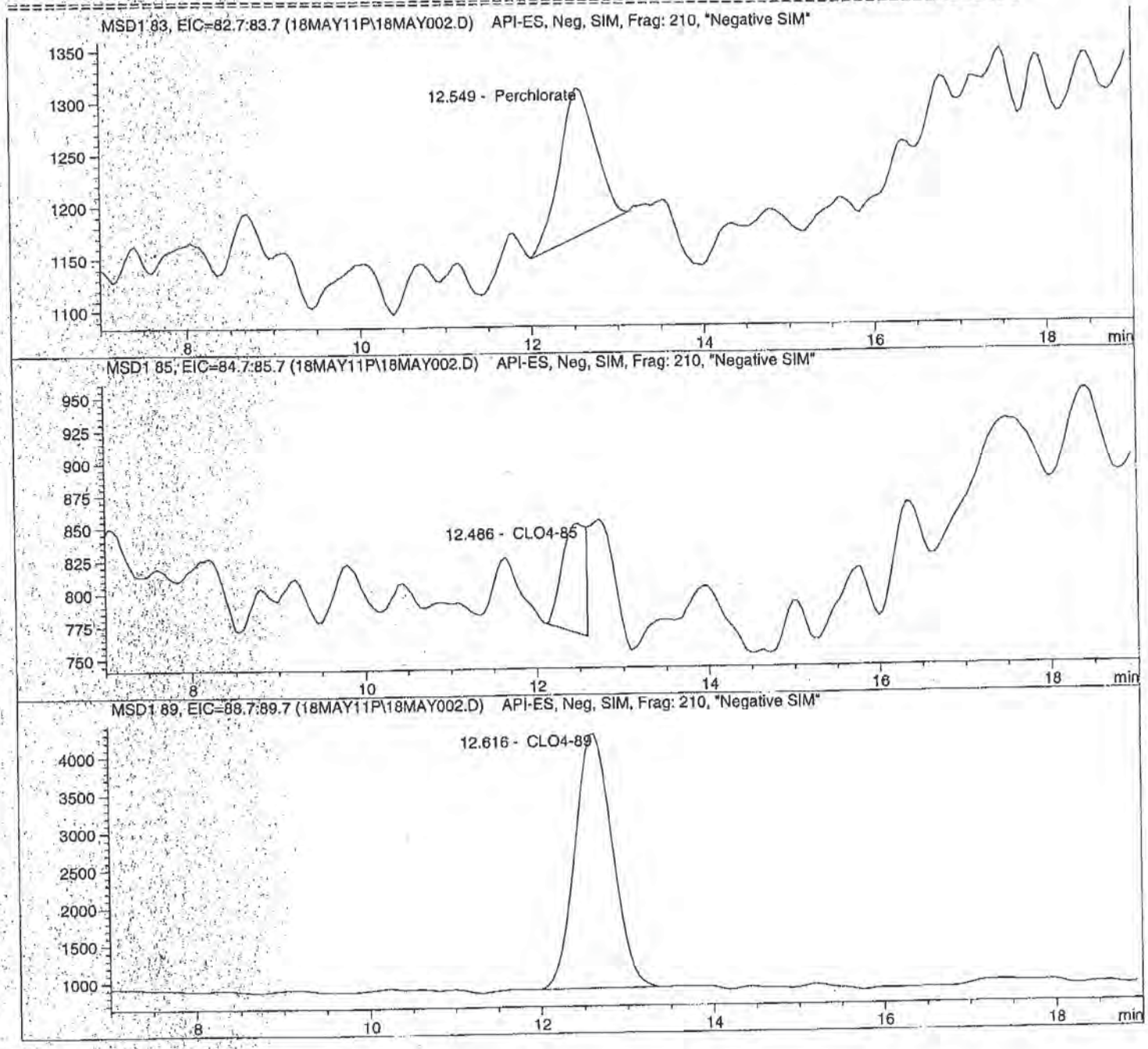
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

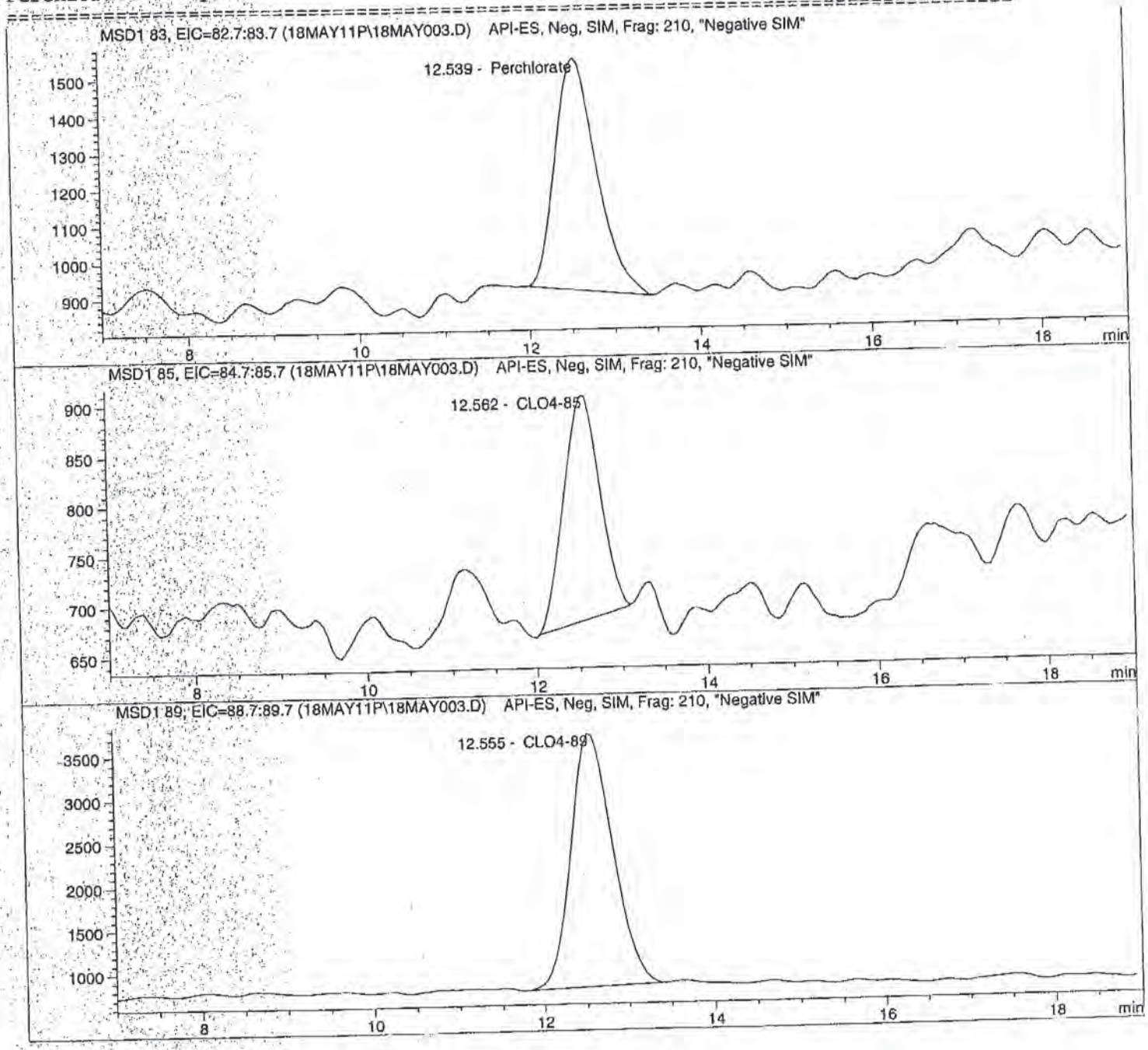
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

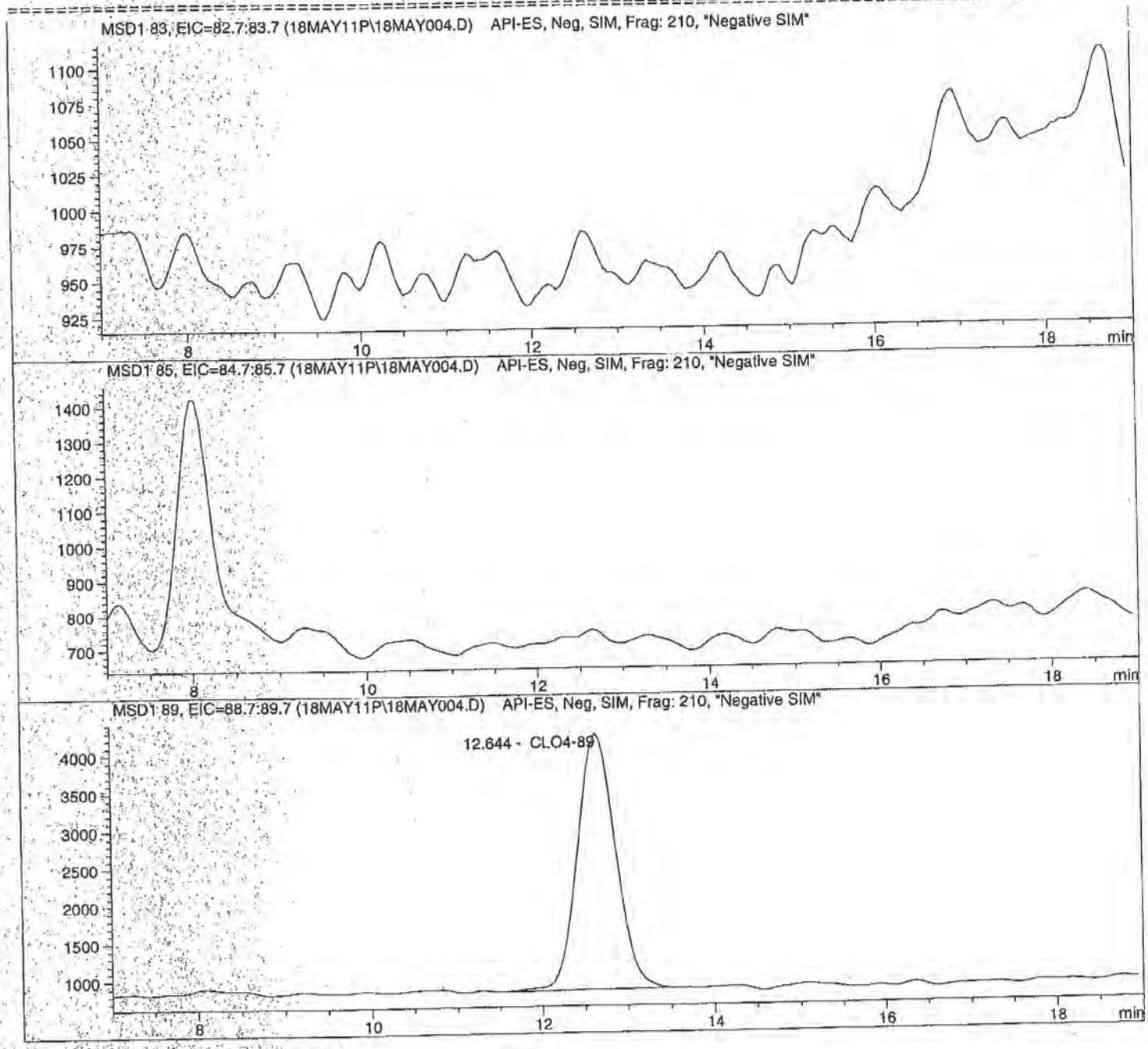
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

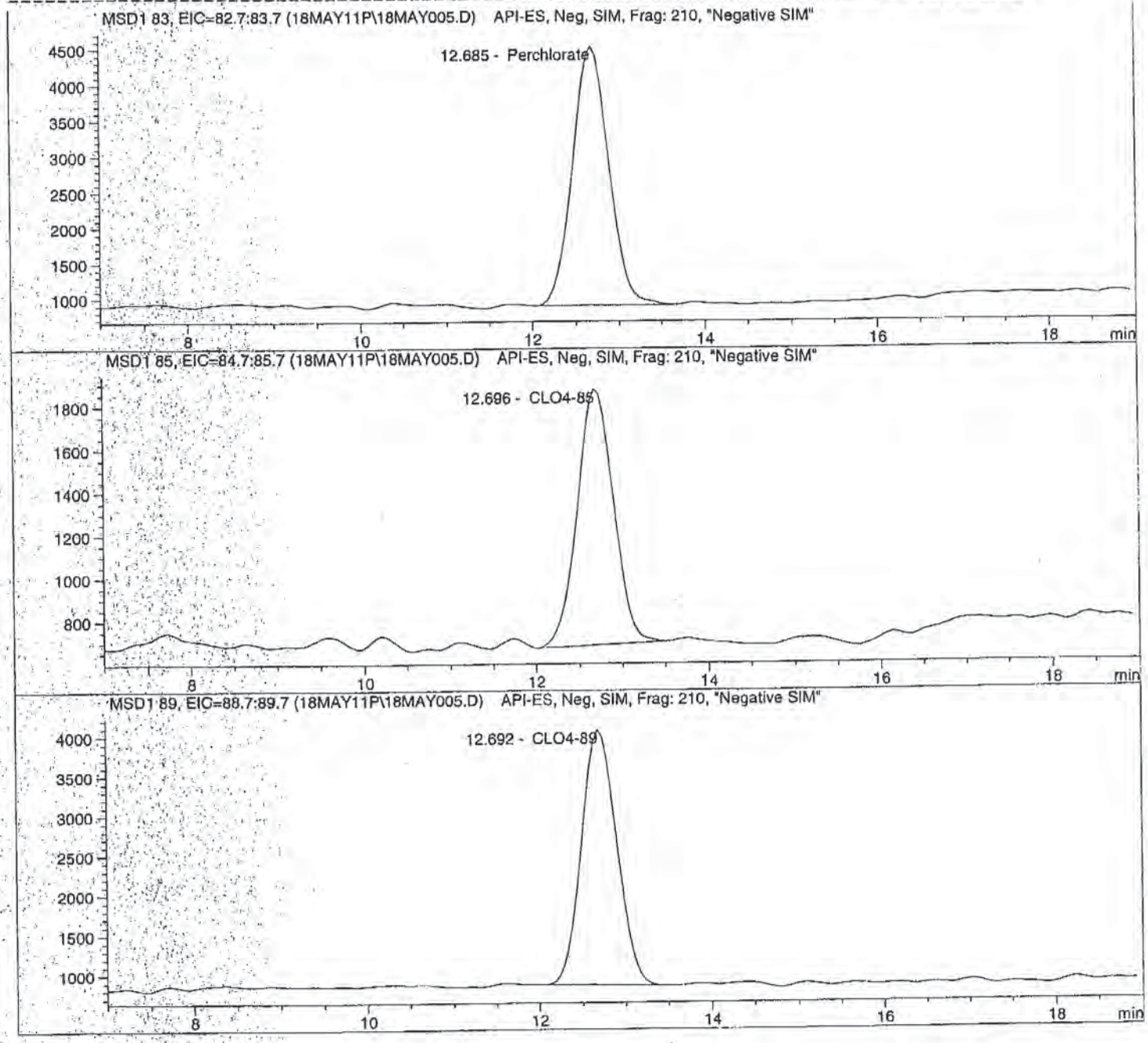
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

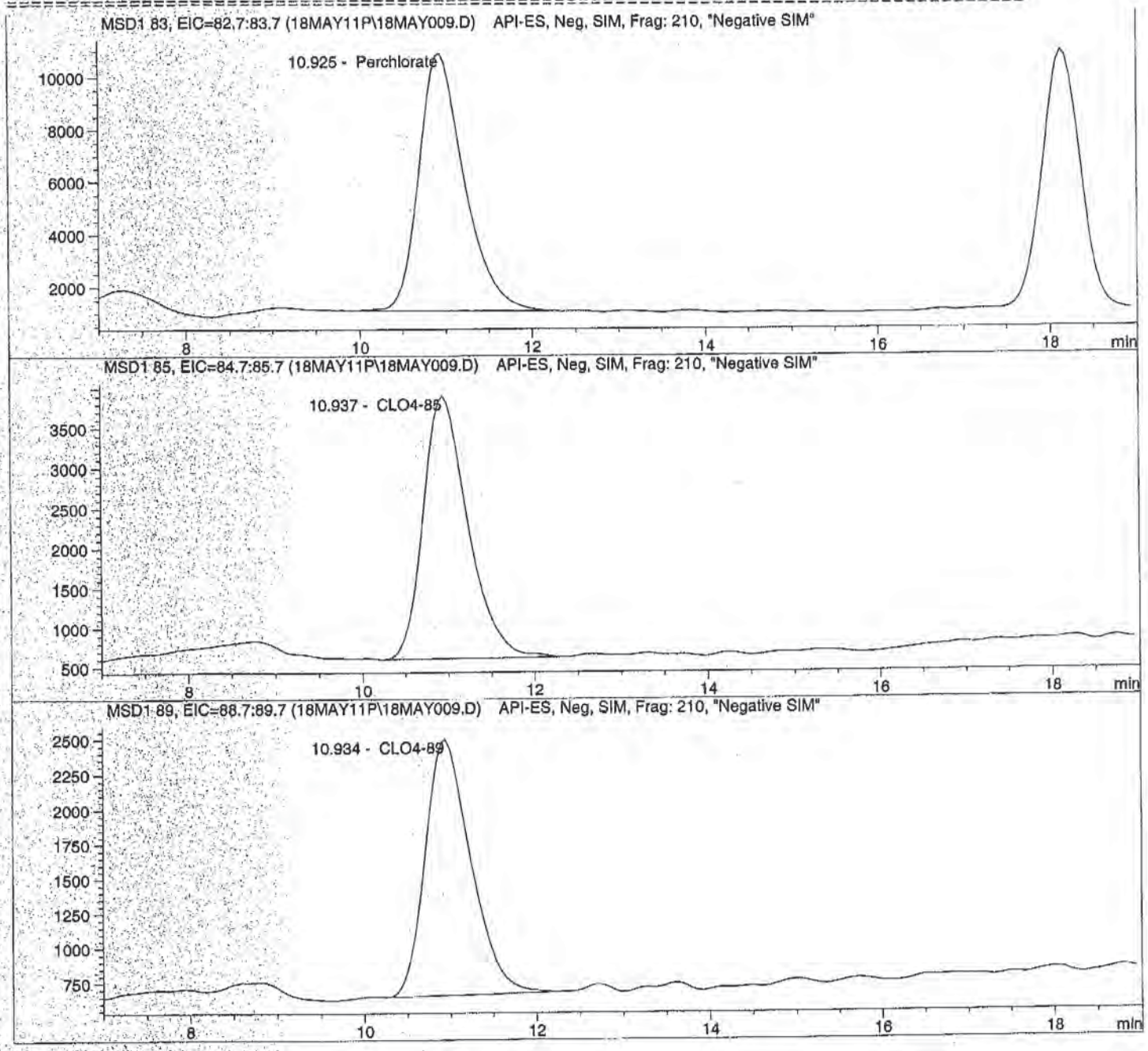
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.925	MM	358555.1	19.5730	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.937	MM	118943.4	21.3257	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.934	MM	67599.3	5.0000	CLO4-89

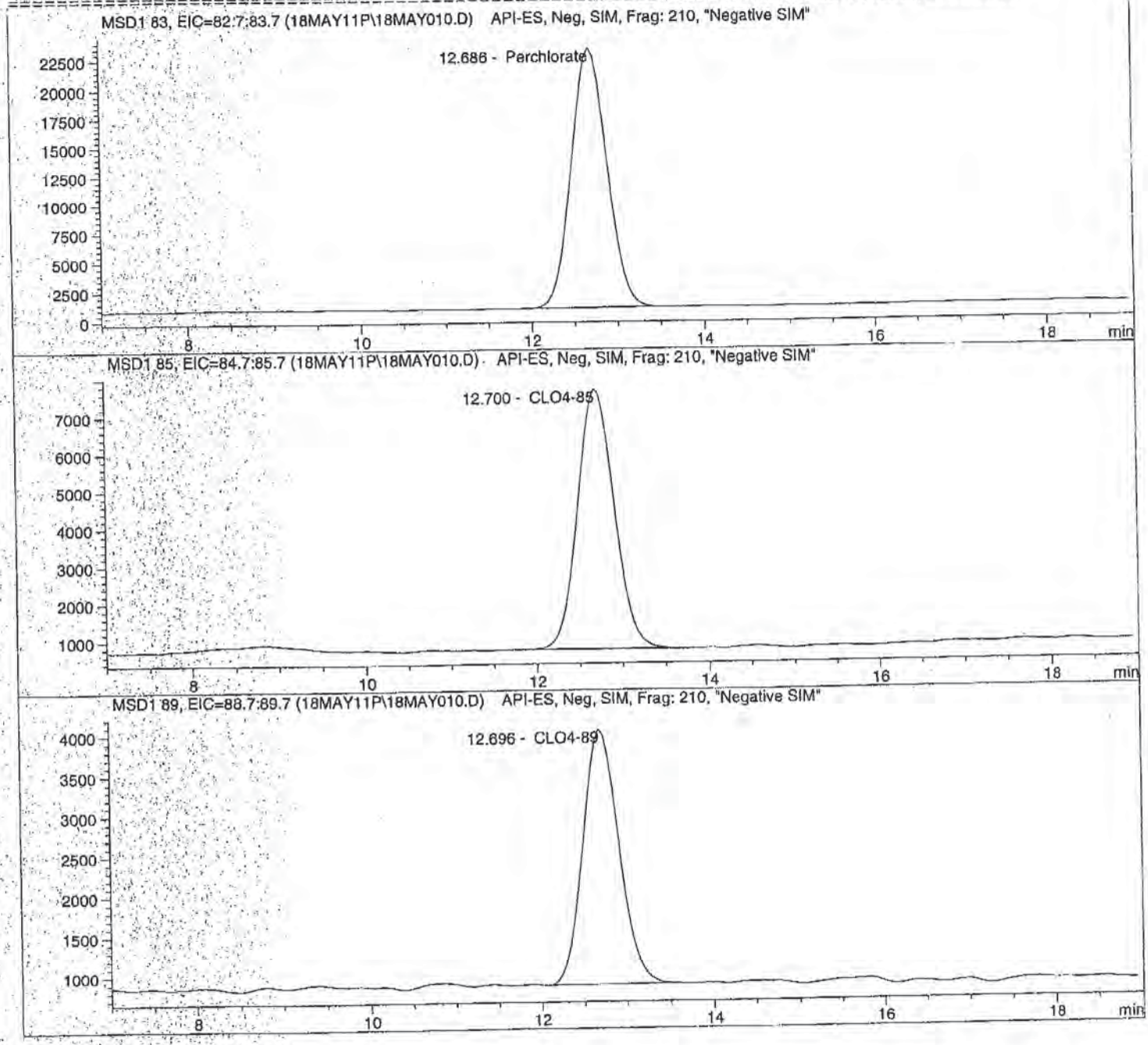
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

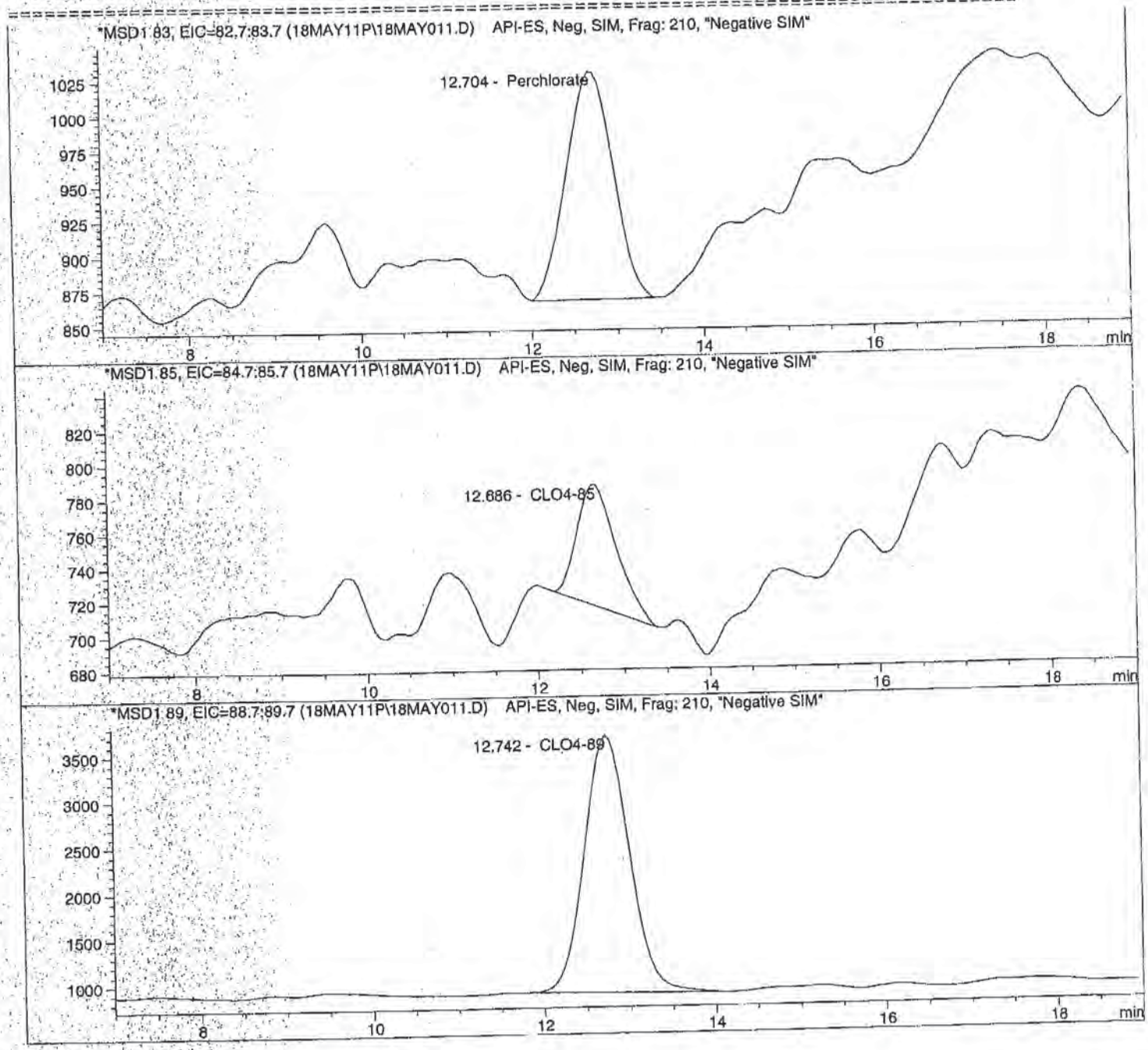
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85217

#*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.0000
*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.0000
*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.0000
*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.0000
*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.0000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

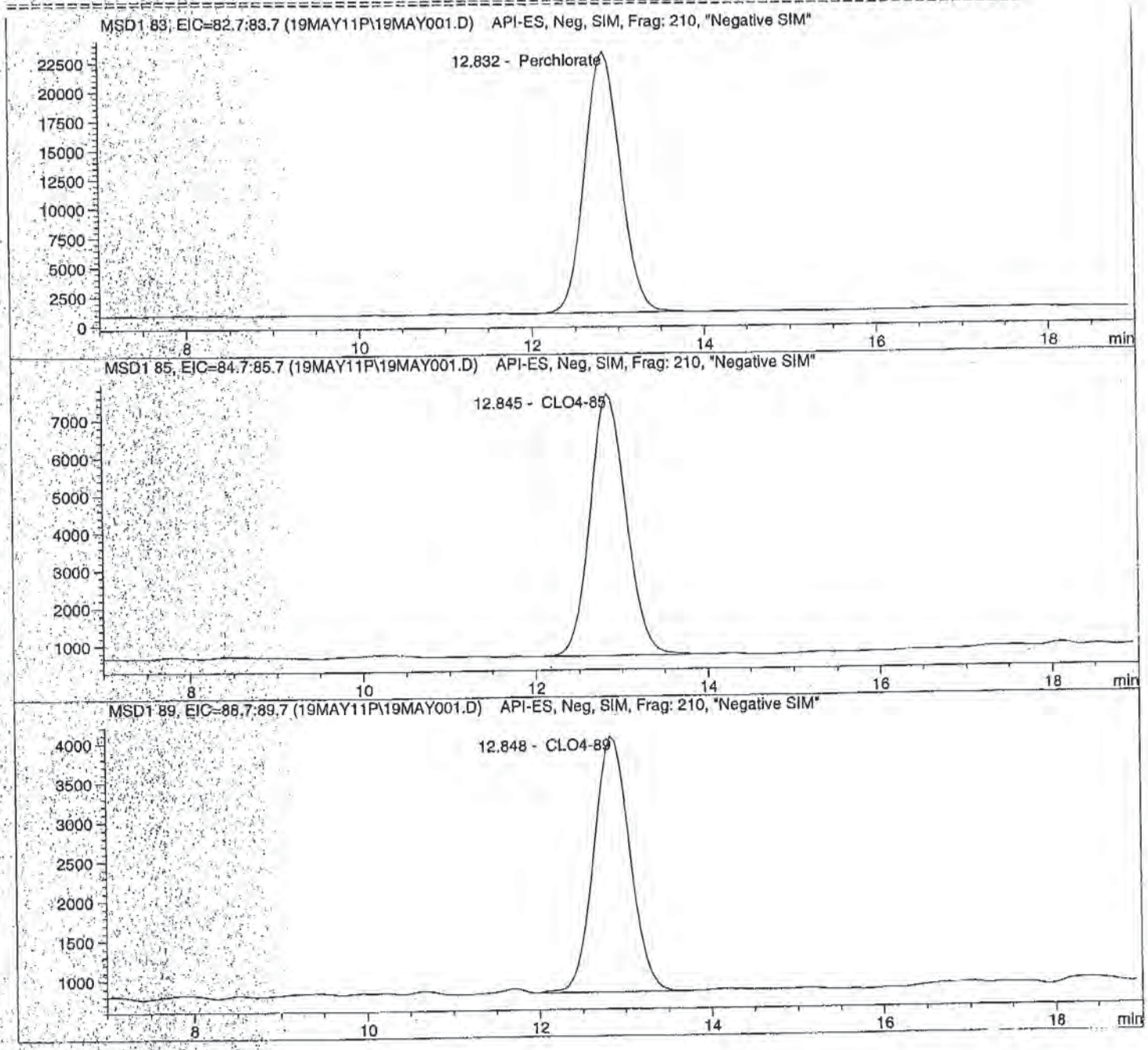
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544 CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001 5X	CLO4-ON	1	Sample		
3	Vial 7	219409 136181S	CLO4-ON	1	Sample		
4	Vial 8	219410 136181D	CLO4-ON	1	Sample		
5	Vial 1	219545 CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

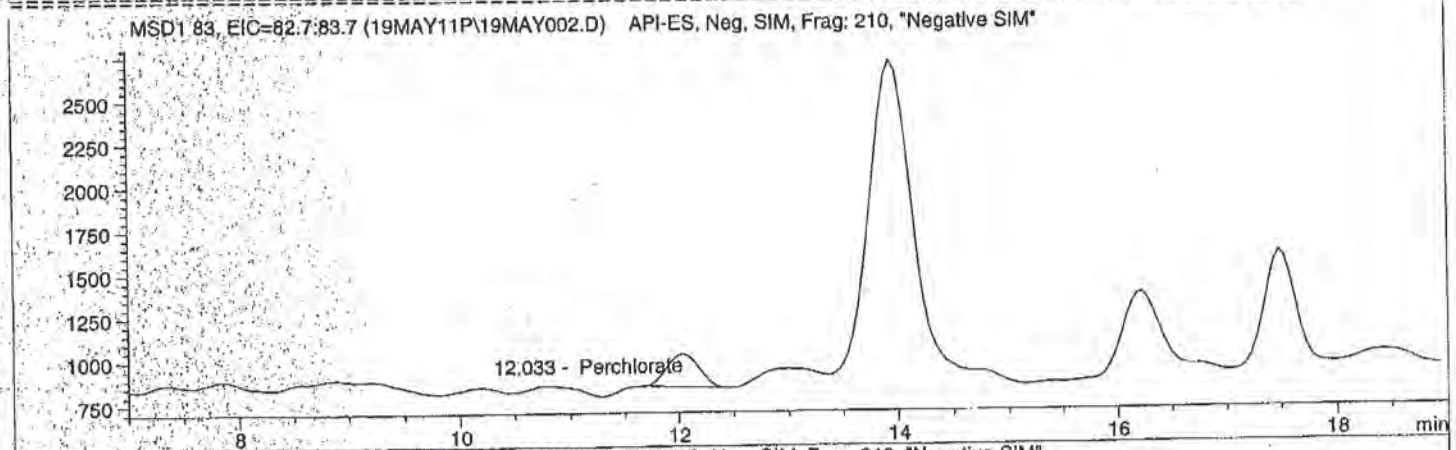
*** End of Report ***

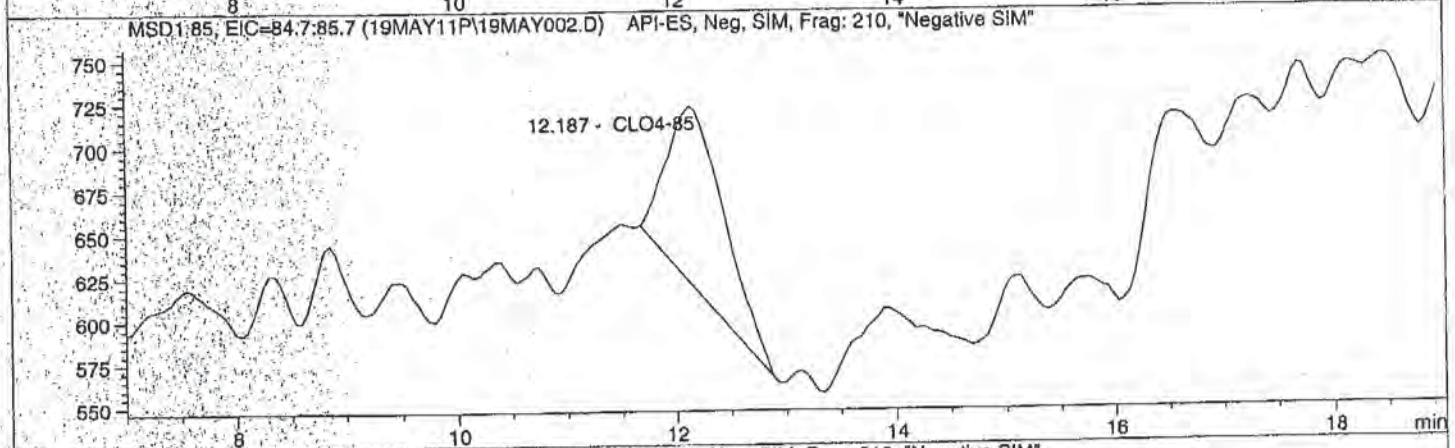
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

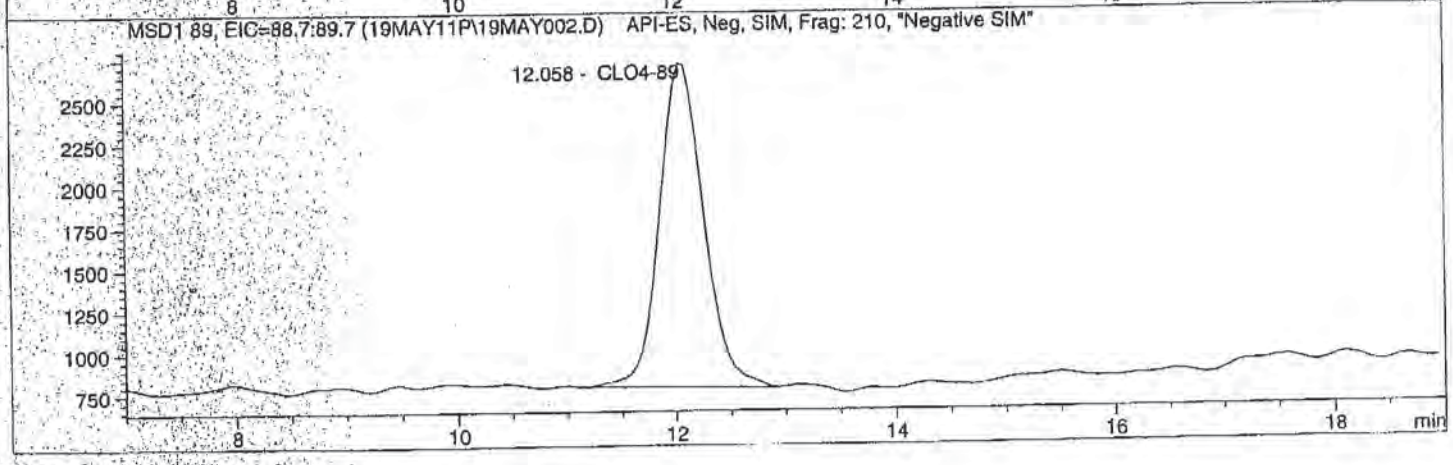
Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

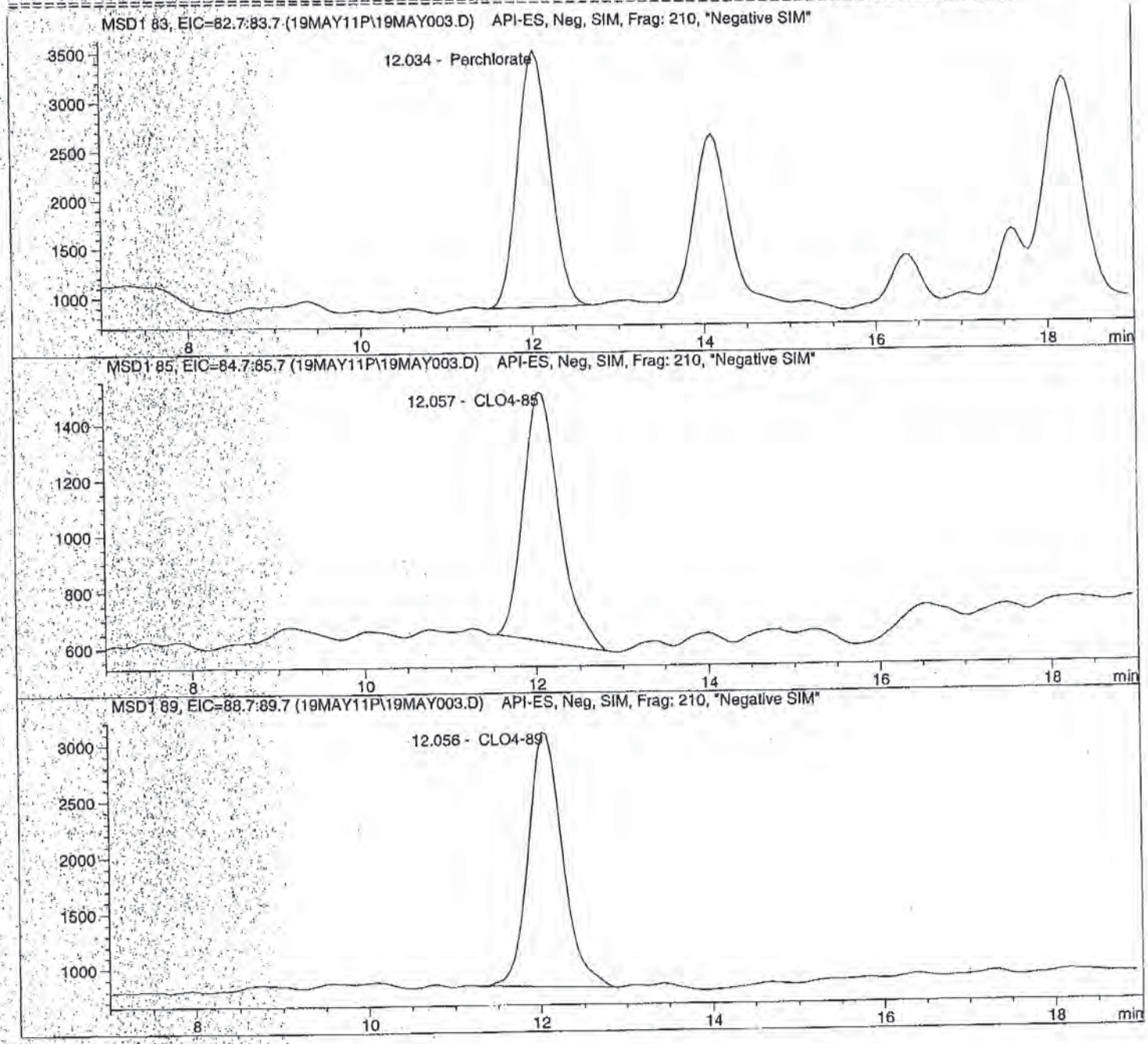
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

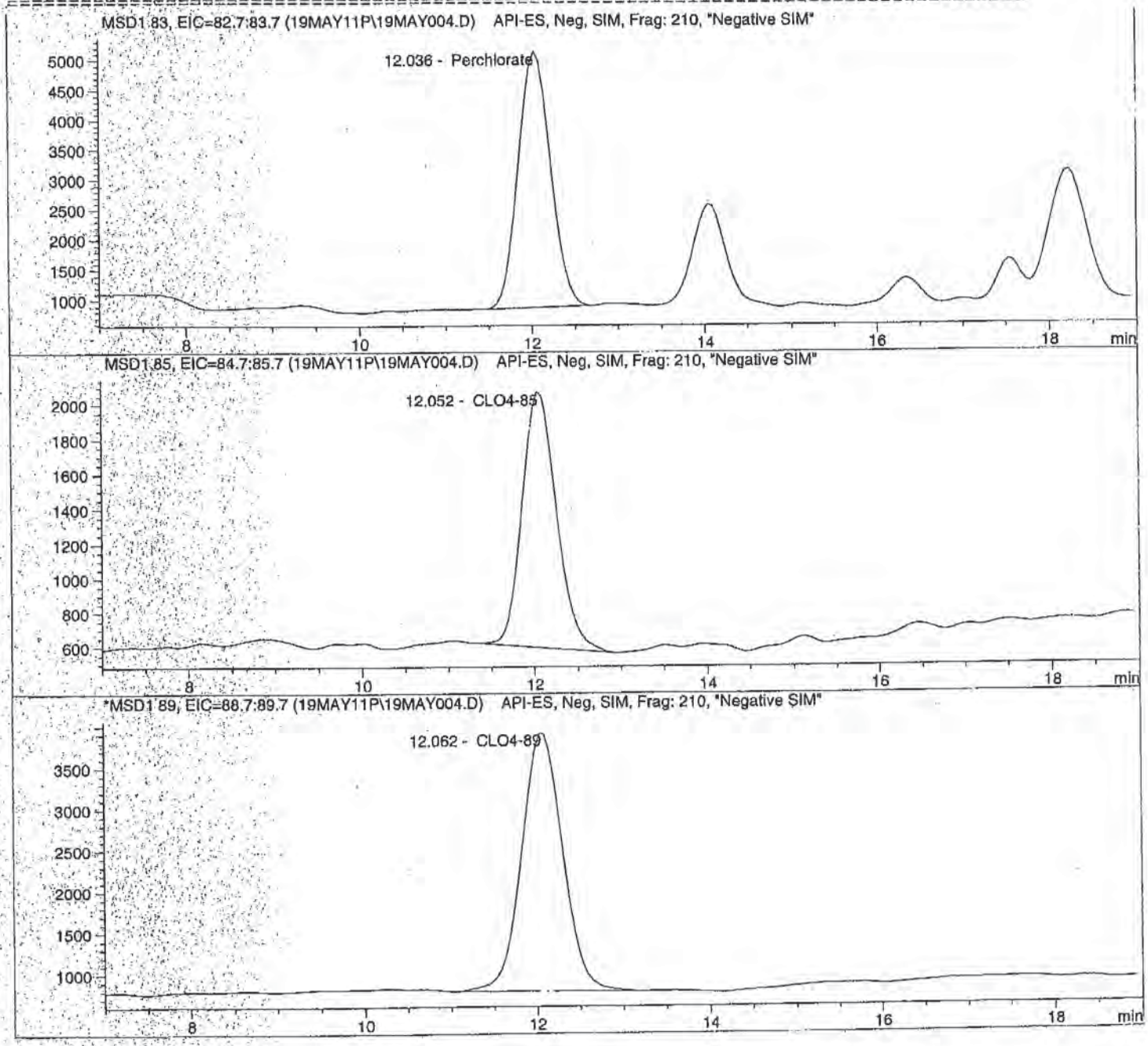
RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

*** End of Report ***

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

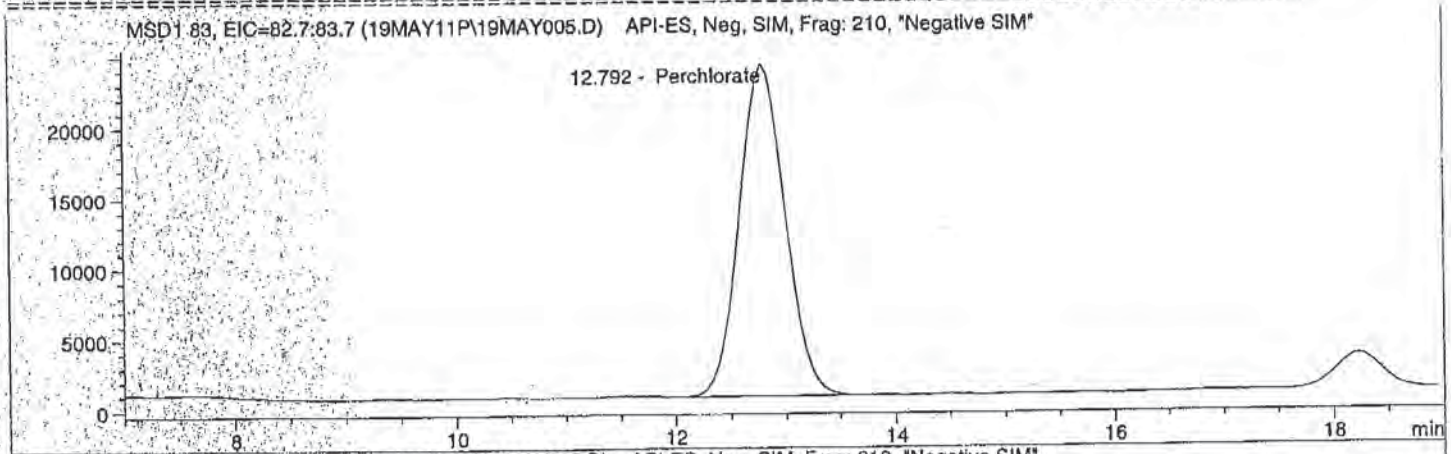
*** End of Report ***

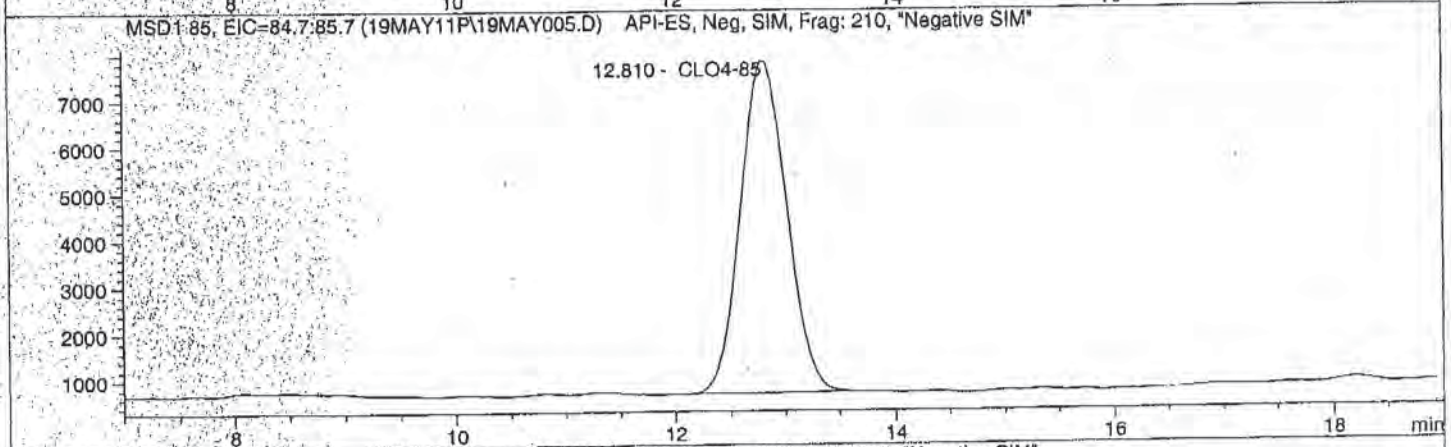
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

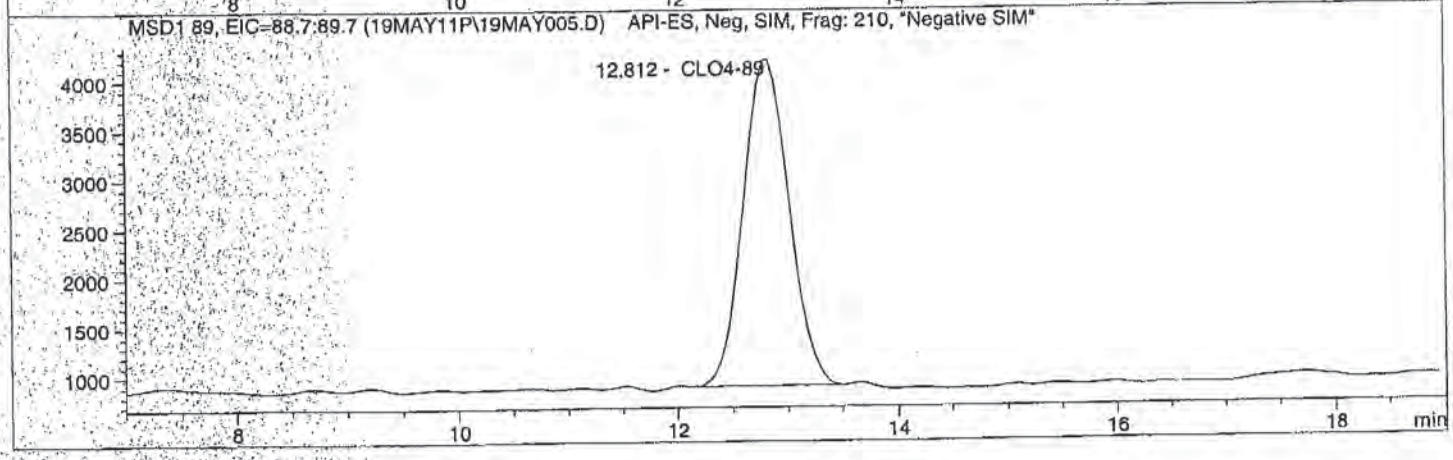
Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5		1	Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5		1	CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
Time Window : From 10.107 min To 18.107 min
Curve Type : Quadratic
Origin : Forced
Calibration Level Weights:/
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006

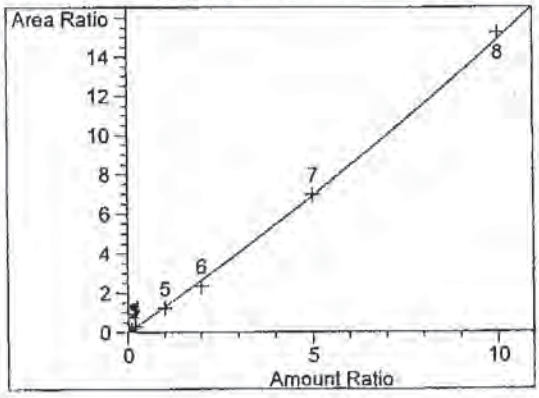
Compound: CLO4-89
Time Window : From 10.065 min To 18.065 min
Curve Type : Linear
Origin : Included
Calibration Level Weights:/
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1

Compound: CLO4-85
Time Window : From 10.121 min To 18.121 min
Curve Type : Quadratic
Origin : Ignored
Calibration Level Weights:/
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

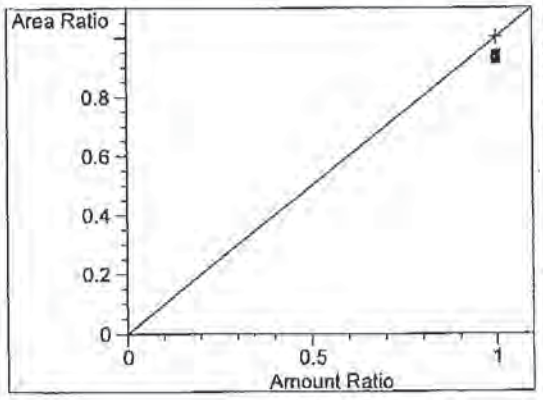
Peak Sum Table

No Entries in table

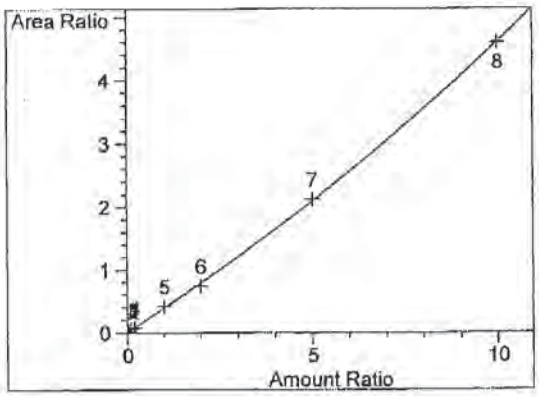
Calibration Curves



Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

Sequence Table:

Method and Injection Info Part:

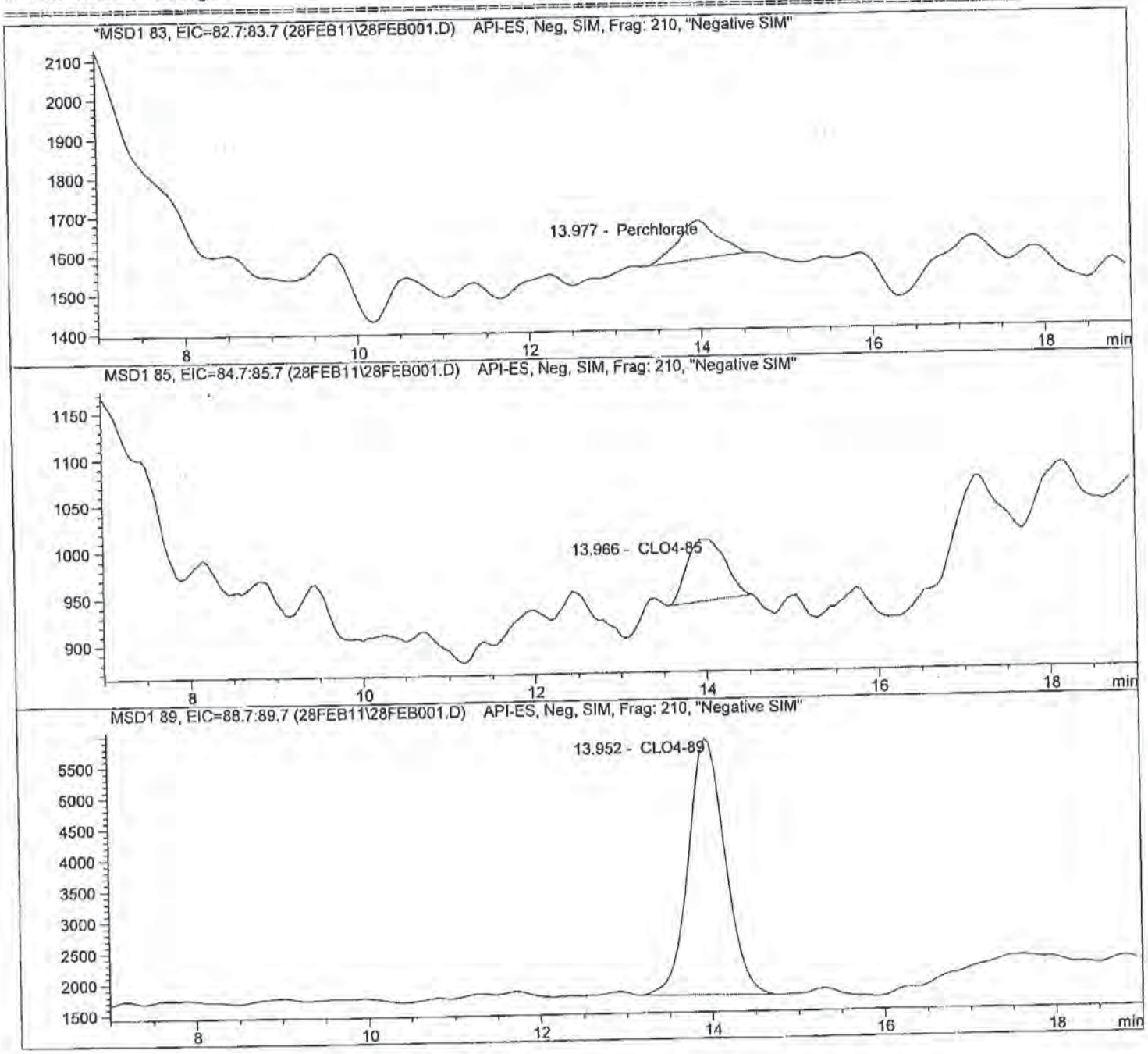
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

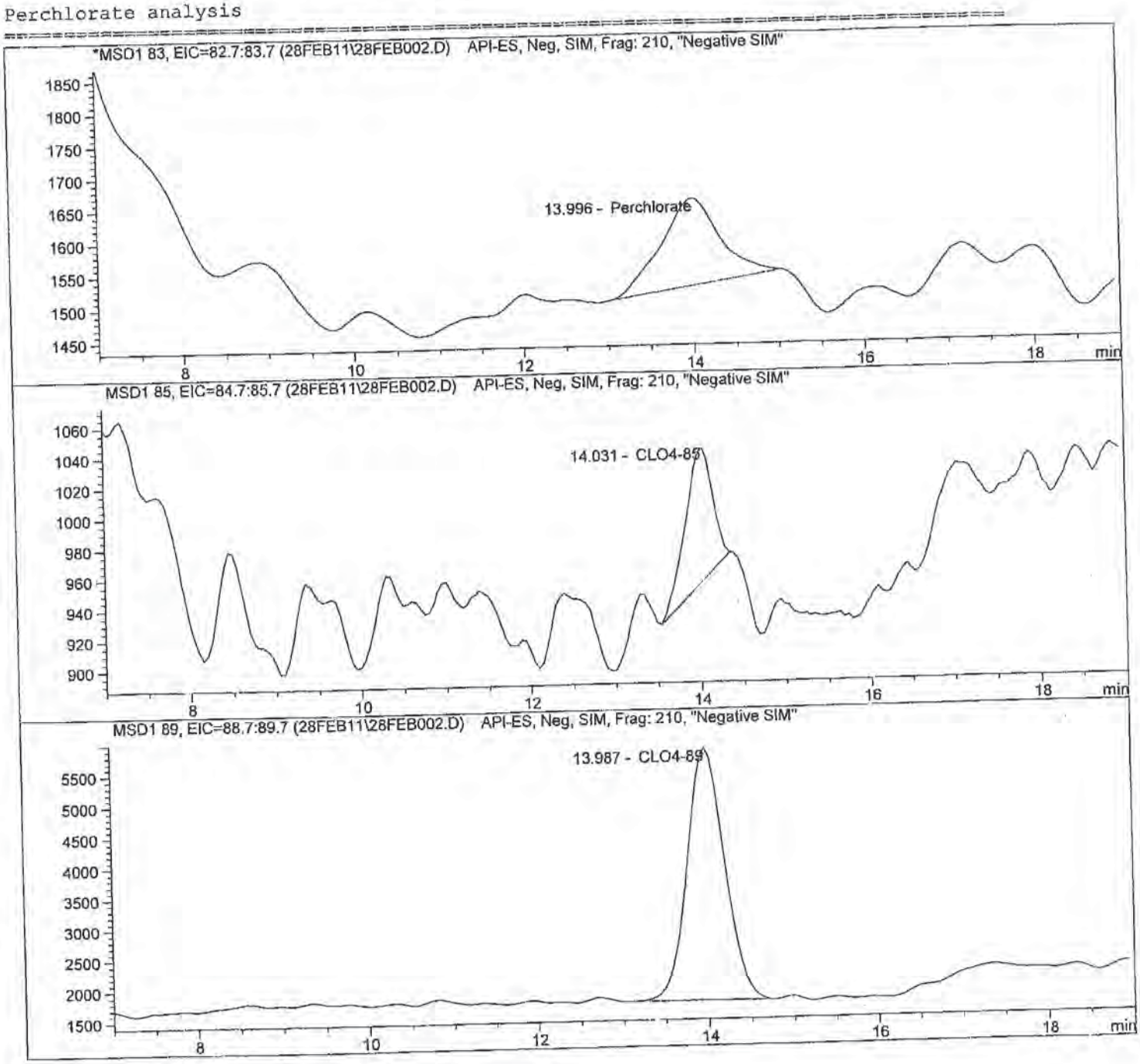
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

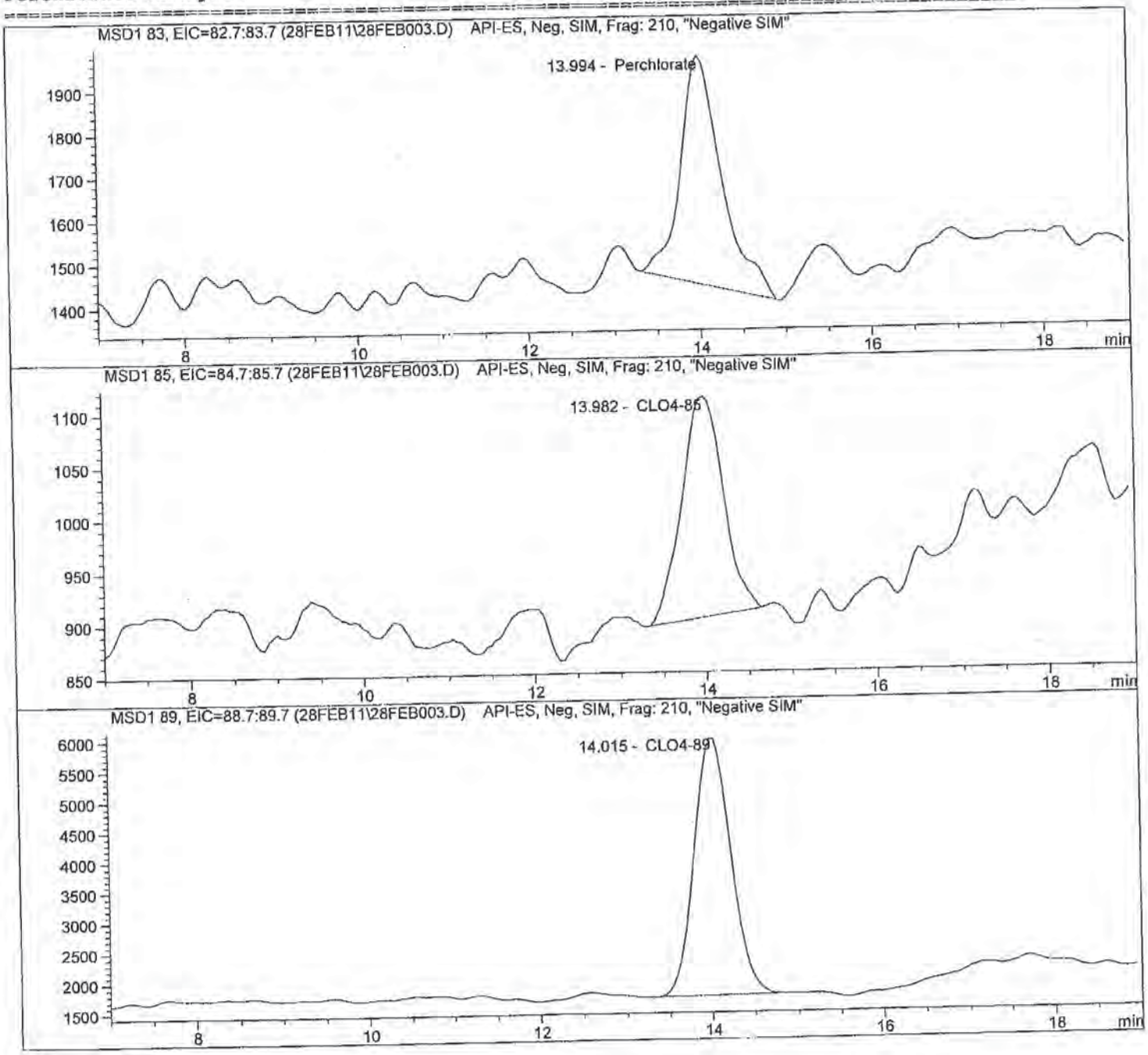
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

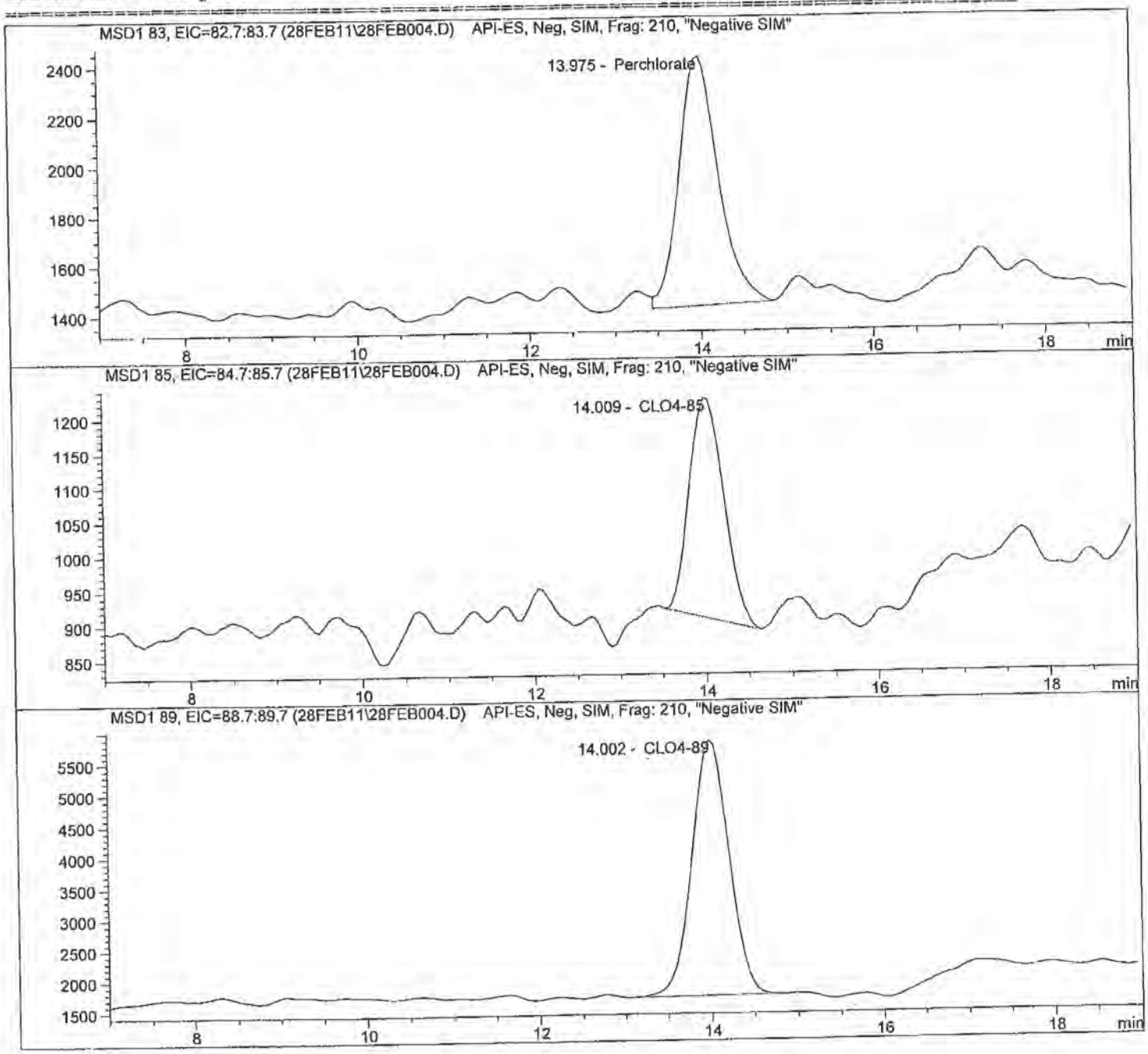
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

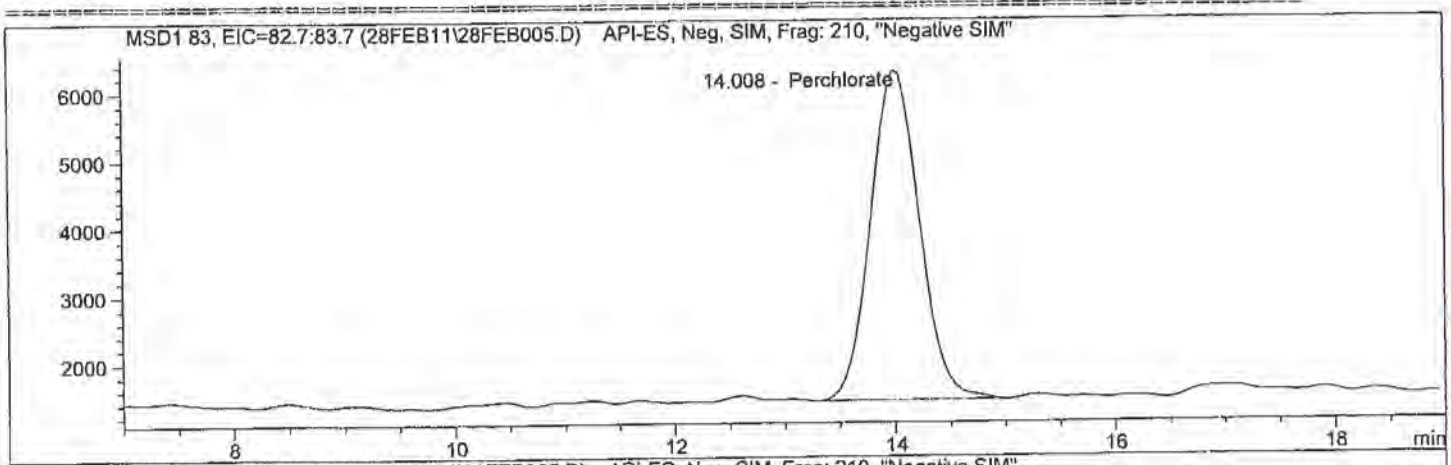
*** End of Report ***

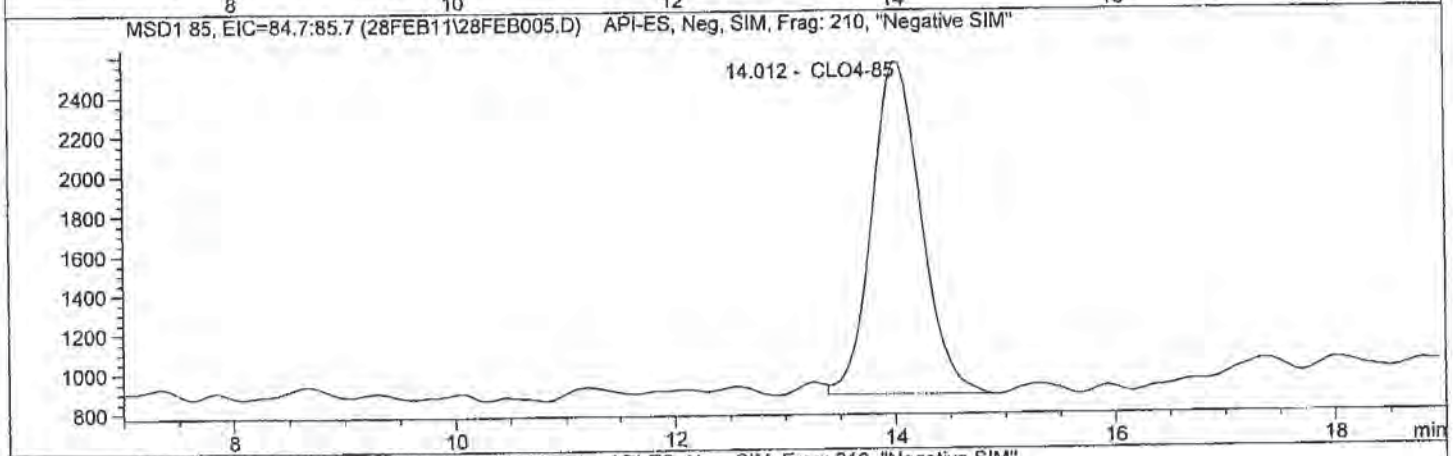
Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

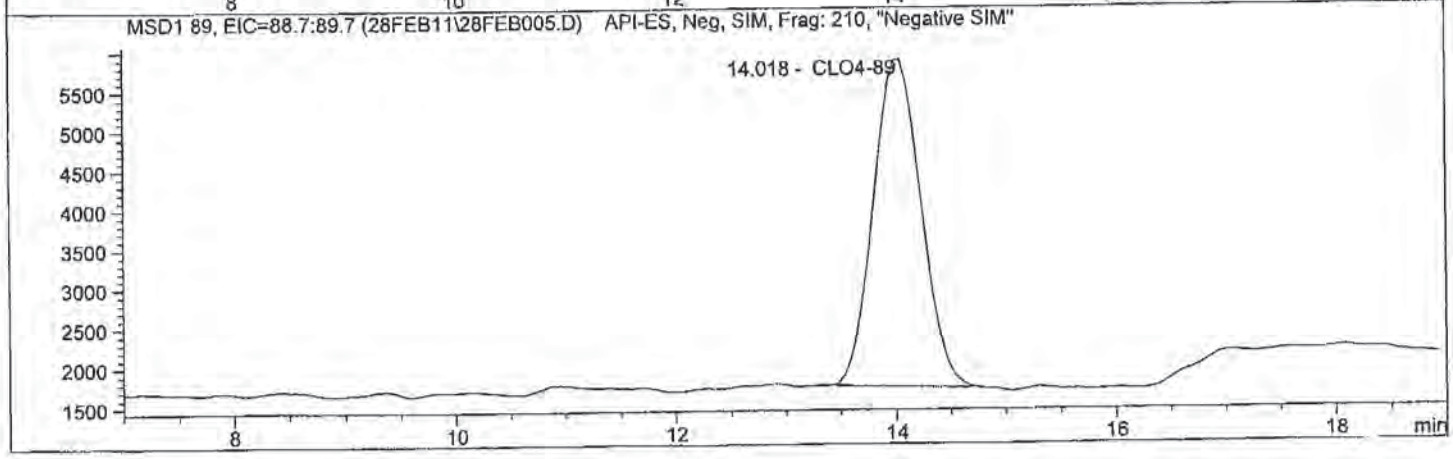
Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

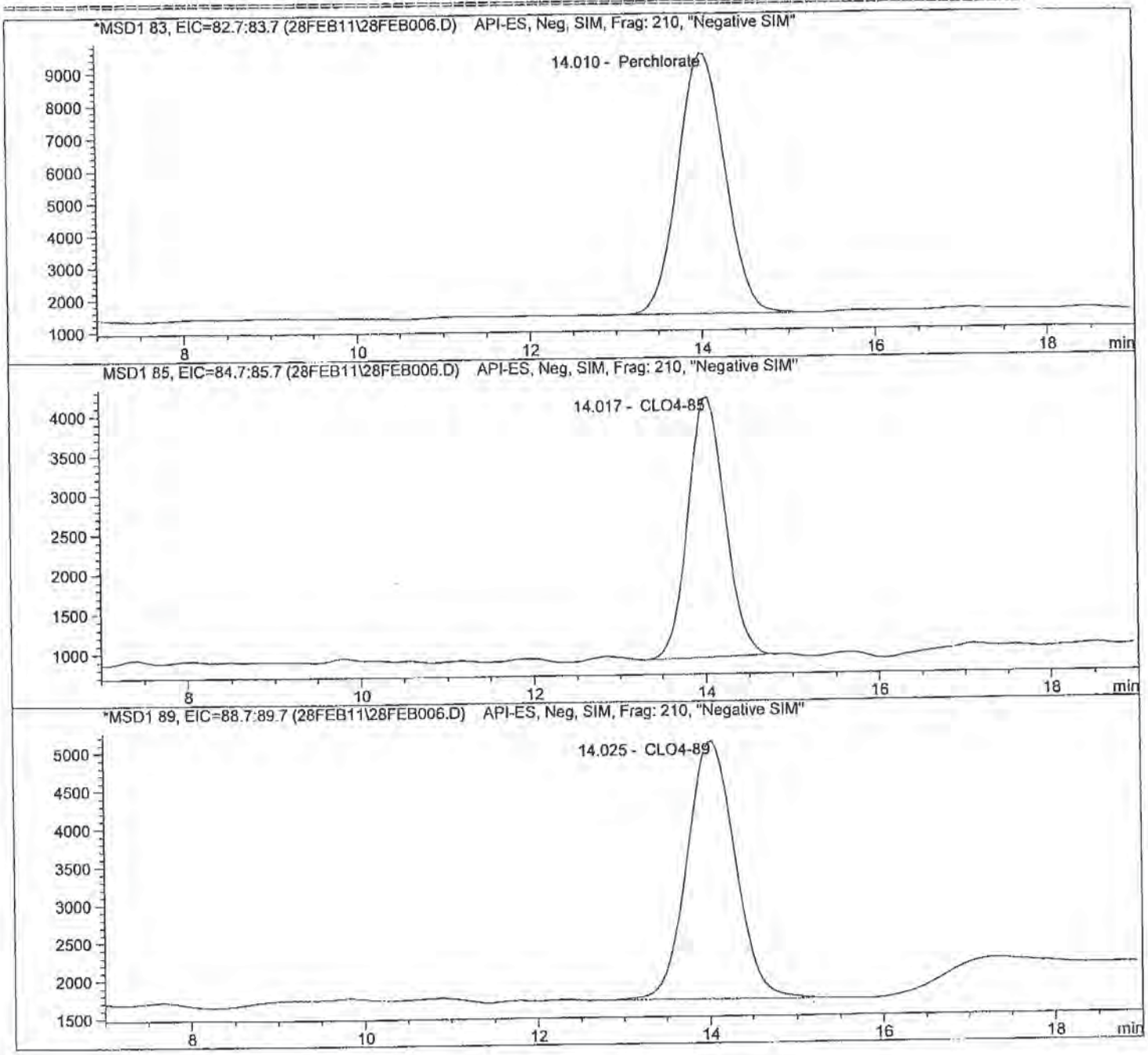
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

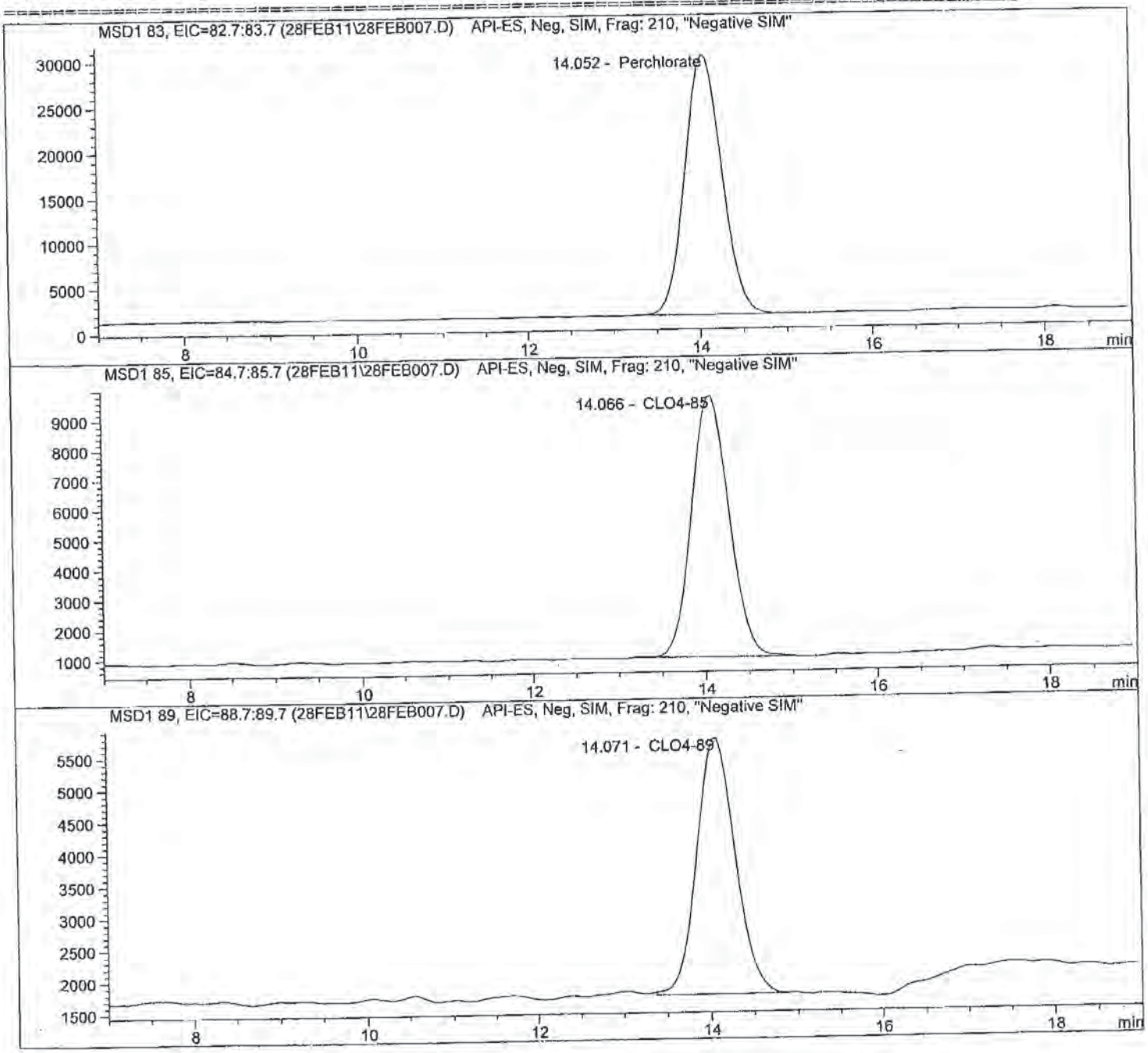
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

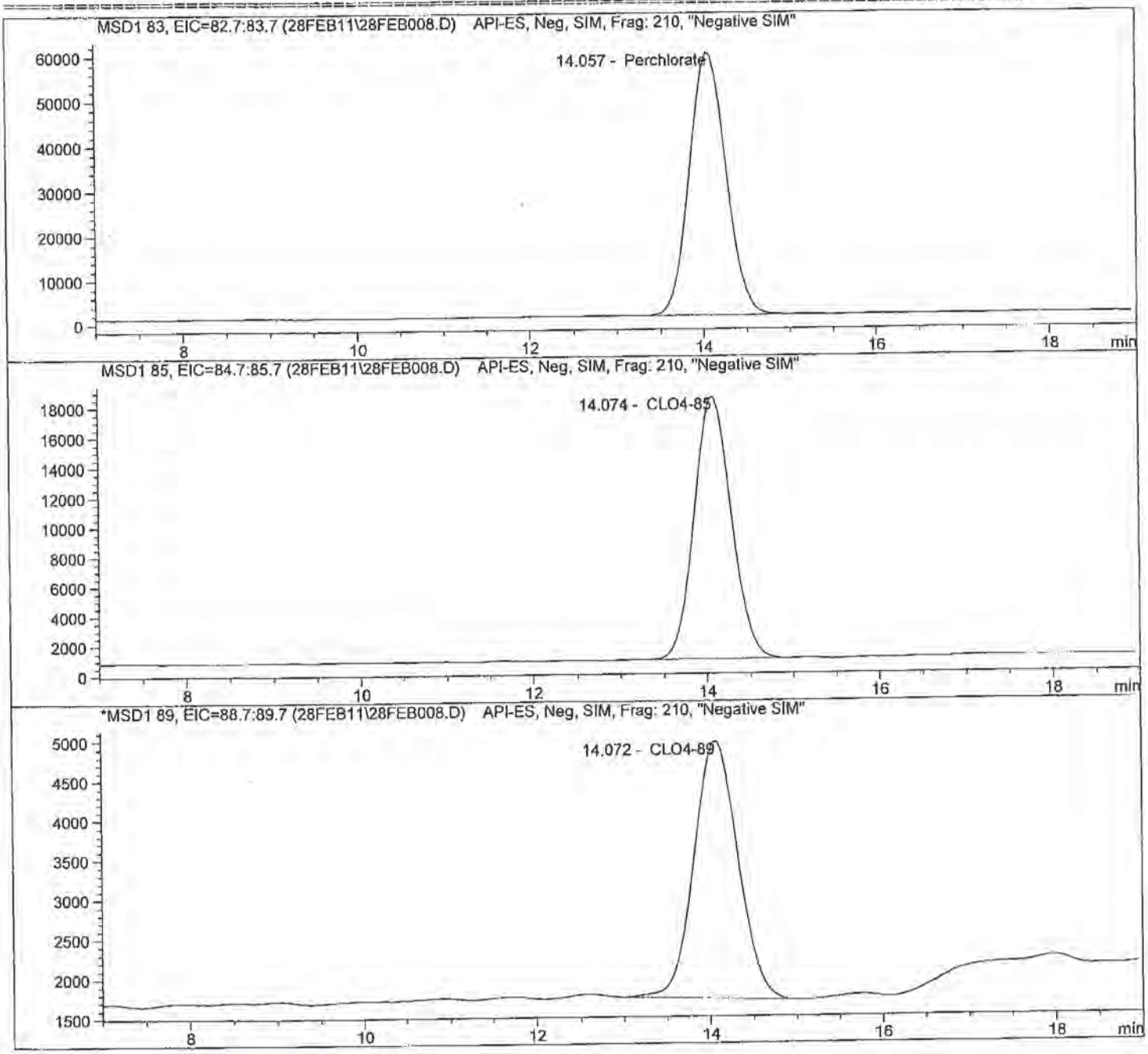
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

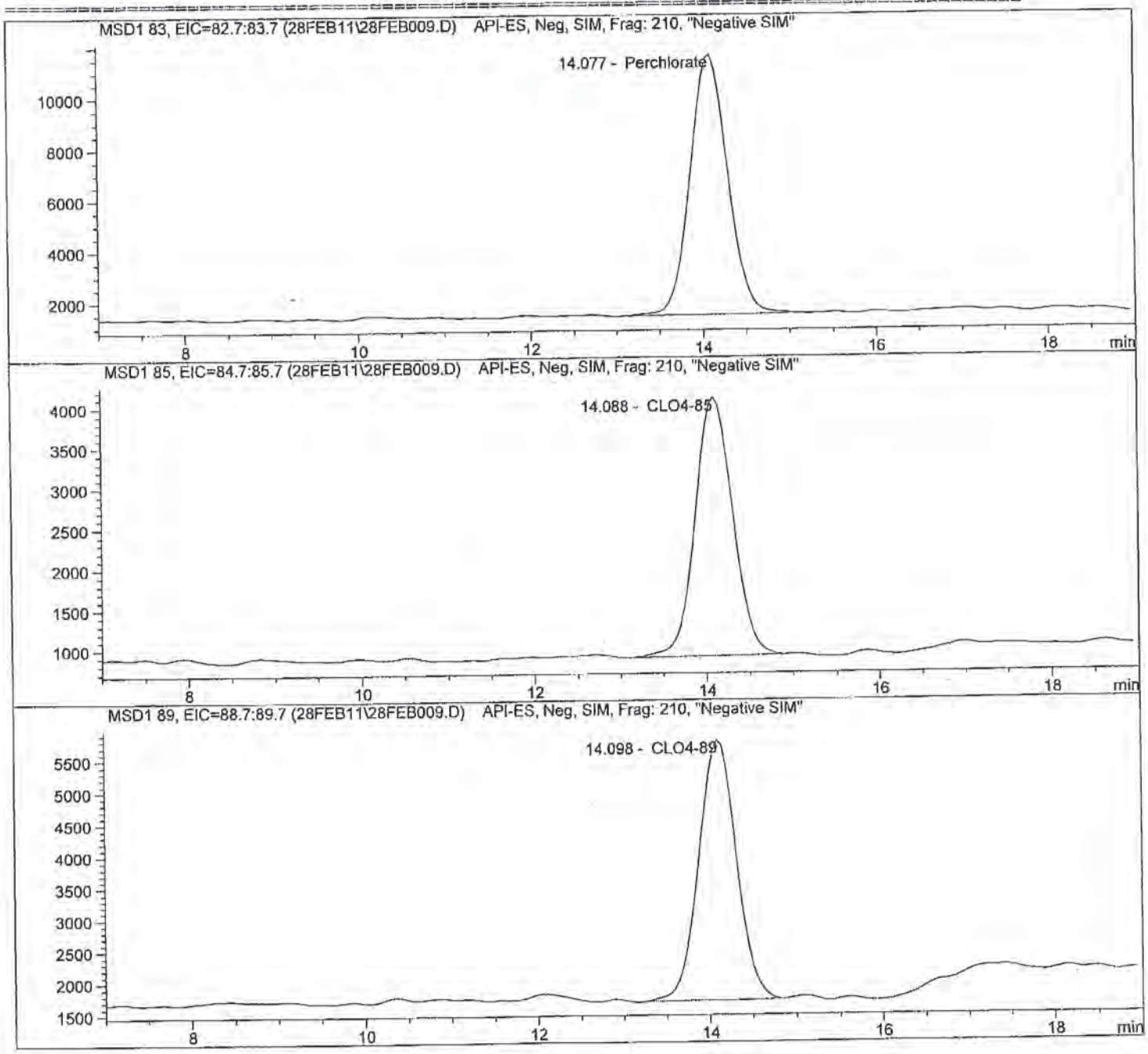
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

Southeast ACCUTEST LABORATORIES

02/05/13

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F86441

Sampling Date: 09/28/11

Report to:

Trinity Analysis & Development Corp

jkramer@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **18**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F86441

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F86441-1	09/28/11	10:28	MHBS	09/29/11	AQ	Ground Water	MA02 MW001D
F86441-1F	09/28/11	10:28	MHBS	09/29/11	AQ	Groundwater Filtered	MA02 MW001D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Trinity Analysis & Development Corp	**Job**	F86441
Site:	Melrose Air Force Range, NM	**Report Date**	10/20/2011 11:28:05

1 Sample was collected on 09/28/2011 and was received at Accutest SE on 09/29/2011 properly preserved, at 2.6 Deg. C and intact. The Sample received an Accutest job number of F86441. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VZ2

All samples were analyzed within the recommended method holding time.

Sample(s) F86441-1MS, F86441-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Bromoform, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Bromoform, cis-1,3-Dichloropropene, Styrene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Styrene is outside control limits for sample F86441-1MSD. Probable cause due to sample non-homogeneity.

F86441-1 for Acetone: ICV outside of control limits.

Extractables by GC by Method SW846 8330A

Matrix: AQ **Batch ID:** OP38919

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86582-1MS, F86582-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for o-Nitrotoluene is outside control limits.

Matrix Spike Recovery(s) for 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene, are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,3,5-Trinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene are outside control limits. Probable cause due to matrix interference.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, 2,4,6-Trinitrotoluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for HMX, Tetryl are outside control limits for sample OP38919-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP38919-MS, OP38919-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP38919-MS for 3,4-Dinitrotoluene: Outside control limits due to dilution.

OP38919-MSD for 3,4-Dinitrotoluene: Outside control limits due to dilution.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86391-1MS, F86391-1MSD, F86391-1PS, F86391-1SDL, F86391-1DUP were used as the QC samples for metals.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

RPD(s) for Duplicate for Arsenic is outside control limits for sample MP21456-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Chromium, Iron, Sodium are outside control limits for sample MP21456-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP21456-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP21488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86645-15MS, F86645-15MSD, F86645-15SDL, F86645-22SDL, F86645-15DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury is outside control limits for sample MP21488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury is outside control limits for sample MP21488-SDL2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP17827

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP, F86429-12MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

Matrix Spike Recovery(s) for Nitrogen, Nitrite, Sulfate are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Recovery(s) for Nitrogen, Nitrate is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

F86441-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17839

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86417-1DUP, F86417-1MS were used as the QC samples for Cyanide, Total.

Matrix Spike Recovery(s) for Cyanide, Total is outside control limits. Probable cause due to matrix interference.

GP17839-S1 for Cyanide, Total: Spike recovery outside of acceptable QC criteria.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN46685

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86547-3DUP, F86547-3MS, F86547-3MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN46629

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP was used as the QC sample for Solids, Total Dissolved.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN46565

All method blanks for this batch meet method specific criteria.

Sample(s) F86441-1DUP, F86441-1MS were used as the QC samples for Chromium, Hexavalent.

The following samples were run outside of holding time for method SW846 7196A: F86441-1. Sample received near the end of hold time. Analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 20, 2011

Ellen Pampel, Inorganic QA (signature on file)

Thursday, October 20, 2011

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
F86441-1MS	MSVOA	Z63.D	Trichlorofluoromethane
F86441-1MSD	MSVOA	Z64.D	Trichlorofluoromethane
GBB642-CC642	GCSEMI	BB029380.D	2,4,6-Trinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, DNX, m-Nitrotoluene, Nitrobenzene, Nitroglycerine, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl
GBB642-ECC642	GCSEMI	BB029400.D	PETN
GBB642-IC642	GCSEMI	BB029372.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, PETN, Tetryl
GBB642-IC642	GCSEMI	BB029373.D	2,6-Dinitrotoluene, m-Nitrotoluene
GBB642-ICV642	GCSEMI	BB029379.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline, MNX, Nitrobenzene, RDX
GBB648-CC642	GCSEMI	BB029577.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline
GBB650-CC642	GCSEMI	BB029594.D	Tetryl
GBB650-CC642	GCSEMI	BB029604.D	Tetryl
GBB651-CC642	GCSEMI	BB029650.D	4-amino-2,6-Dinitrotoluene, Tetryl
GBB653-CC642	GCSEMI	BB029752.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 3,5-Dinitroaniline
GBB653-CC642	GCSEMI	BB029771.D	Tetryl
GBB653-ECC642	GCSEMI	BB029781.D	Tetryl
GBB656-CC642	GCSEMI	BB029856.D	m-Nitrotoluene
GBB656-CC642	GCSEMI	BB029871.D	2,4,6-Trinitrotoluene, Tetryl
GBB656-ECC642	GCSEMI	BB029882.D	m-Nitrotoluene, p-Nitrotoluene, PETN
GGG1796-CC1796	GCSEMI	GG045889.D	3,4-Dinitrotoluene, 3,5-Dinitroaniline, DNX, HMX, Nitroglycerine, o-Nitrotoluene, PETN, TNX
GGG1796-CC1796	GCSEMI	GG045899.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ECC1796	GCSEMI	GG045911.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045881.D	3,5-Dinitroaniline, DNX, o-Nitrotoluene, p-Nitrotoluene, PETN
GGG1796-IC1796	GCSEMI	GG045882.D	3,5-Dinitroaniline, DNX, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045883.D	3,5-Dinitroaniline, o-Nitrotoluene, PETN
GGG1796-IC1796	GCSEMI	GG045884.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045885.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-IC1796	GCSEMI	GG045887.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ICC1796	GCSEMI	GG045886.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1796-ICV1796	GCSEMI	GG045888.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045934.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045943.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045955.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-CC1796	GCSEMI	GG045967.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1798-ECC1796	GCSEMI	GG045978.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046027.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046038.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-CC1796	GCSEMI	GG046050.D	3,5-Dinitroaniline, o-Nitrotoluene
GGG1800-ECC1796	GCSEMI	GG046082.D	3,5-Dinitroaniline, o-Nitrotoluene
OP38919-BS	GCSEMI	GG046078.D	3,5-Dinitroaniline, HMX, o-Nitrotoluene
OP38919-MS	GCSEMI	BB029648.D	HMX, RDX, Tetryl
OP38919-MSD	GCSEMI	BB029649.D	2,4,6-Trinitrotoluene, HMX, RDX, Tetryl
VZ1-IC1	MSVOA	Z05.D	p-Dichlorobenzene, Trichlorofluoromethane
VZ1-IC1	MSVOA	Z06.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z07.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z09.D	Trichlorofluoromethane
VZ1-IC1	MSVOA	Z10.D	Trichlorofluoromethane
VZ1-ICC1	MSVOA	Z08.D	Trichlorofluoromethane
VZ1-ICV1	MSVOA	Z12.D	Trichlorofluoromethane
VZ2-BS	MSVOA	Z40.D	Methyl ethyl ketone, Trichlorofluoromethane
VZ2-CC1	MSVOA	Z39.D	Trichlorofluoromethane

49 Manual Integrations were found for F86441

Summary of Hits

Job Number: F86441
Account: Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Collected: 09/28/11

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F86441-1	**MA02 MW001D**					
Acetone [a]		14.9 J	25	10	ug/l	SW846 8260B
Calcium		113000	1000		ug/l	SW846 6010C
Magnesium		66100	5000		ug/l	SW846 6010C
Manganese		221	15		ug/l	SW846 6010C
Selenium		138	10		ug/l	SW846 6010C
Sodium		1880000	500000		ug/l	SW846 6010C
Zinc		280	20		ug/l	SW846 6010C
Alkalinity, Total as CaCO3		139	5.0		mg/l	SM19 2320B
Chloride		1940	100		mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		17.9	5.0		mg/l	EPA 300/SW846 9056A
Solids, Total Dissolved		3770	1000		mg/l	SM19 2540C
Sulfate		1730	100		mg/l	EPA 300/SW846 9056A
F86441-1F	**MA02 MW001D**					
Calcium		107000	1000		ug/l	SW846 6010C
Magnesium		63300	5000		ug/l	SW846 6010C
Manganese		182	15		ug/l	SW846 6010C
Selenium		136	10		ug/l	SW846 6010C
Sodium		1780000	500000		ug/l	SW846 6010C
Zinc		265	20		ug/l	SW846 6010C

(a) ICV outside of control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z51.D	1	10/12/11	KW	n/a	n/a	VZ2
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	14.9	25	10	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

(a) ICV outside of control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8330A SW846 3535A	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB029646.D	1	10/06/11	SL	10/05/11	OP38919	GBB651
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.19	0.077	ug/l	
121-82-4	RDX	ND	0.19	0.077	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.19	0.093	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.19	0.077	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.19	0.079	ug/l	
98-95-3	Nitrobenzene	ND	0.19	0.081	ug/l	
88-72-2	o-Nitrotoluene	ND	0.19	0.077	ug/l	
99-08-1	m-Nitrotoluene	ND	0.19	0.077	ug/l	
99-99-0	p-Nitrotoluene	ND	0.19	0.077	ug/l	
479-45-8	Tetryl	ND	0.19	0.077	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.19	0.077	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.19	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	113000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	66100	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	221	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	138	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1880000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	280	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	139	5.0	mg/l	1	10/08/11	GR	SM19 2320B
Chloride	1940	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Chromium, Hexavalent [a]	< 0.010	0.010	mg/l	1	09/29/11 15:00	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	10/05/11 14:42	AR	EPA 335.4/SW 9012B
Nitrogen, Nitrate	17.9	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Nitrogen, Nitrite [b]	< 5.0	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Solids, Total Dissolved	3770	1000	mg/l	10	10/04/11	LE	SM19 2540C
Sulfate	1730	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A

(a) Sample received near the end of hold time. Analyzed as soon as possible.
(b) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1F	**Date Sampled:**	09/28/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	107000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	63300	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	182	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	136	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1780000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	265	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

F86441

Accutest JOB #

PAGE_____OF_____

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name

Address

City State Zip

Project Contact E-mail

Phone#

Sampler(s) Name(s) (Printed)

Project Information

Project Name

Street

City State

Project #

Fax #

Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION: DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
1																

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2 FE	3 FE 9-29-11	0900	4 R Willm 9-29-11 0900
Relinquished by:	**Date Time:**	**Received By:**	**Relinquished by:**	**Date Time:**	**Received By:**
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

5.1

5

F86441: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F86441 CLIENT: trinity PROJECT: Melrose AFB

DATE/TIME RECEIVED: 9-29-11 0900 (MM/DD/YY 24:00) NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8767 0743 1515

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R. Wilson 9-29-11 REVIEWER SIGNATURE/DATE Scott Hill 09/29/11

NF 12/10 receipt confirmation 122910.xls

5.1

5

F86441: Chain of Custody

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ANALYTICAL DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 84

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:
No anomalies or deviations are noted.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SLCMS6850PRCHLT-6850 Perchlorate (Total)	(Dissolved)	LAB USE ONLY
1X	1110004 -01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/3/11

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☒ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 930	4 Reynald Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

9

1110004

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6 =* 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

11

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C
Custody Seals Yes Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

1110004

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.207662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV3

Sequence: 1J28004

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV4

Sequence: 1J28004

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Calibration: 1242005

Laboratory ID: 1J28004-LCV5

Sequence: 1J28004

Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Data for SW6850
Supporting Raw Data / Logs

Sequence Table:

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 71	SEQ-CAL1				
5	Vial 72	SEQ-CAL2				
6	Vial 73	SEQ-CAL3				
7	Vial 74	SEQ-CAL4				
8	Vial 75	SEQ-CAL5				
9	Vial 76	SEQ-CAL6				
10	Vial 77	SEQ-CAL7				
11	Vial 78	SEQ-CAL8				
12	Vial 79	SEQ-ICV1				
13	Vial 3	SEQ-CCV1				
14	Vial 4	SEQ-LCV1				
15	Vial 5	ICS				
16	Vial 2	Reagent Blank				
17	Vial 2	Reagent Blank				
18	Vial 6	1H24012-BLK1				
19	Vial 7	1H24012-BS1				
20	Vial 8	1108162-35				
21	Vial 9	1108162-36				
22	Vial 10	1108162-37				
23	Vial 11	1108162-38				
24	Vial 12	1108162-39				
25	Vial 13	1108162-40				
26	Vial 14	1108162-41				
27	Vial 15	1108162-42				
28	Vial 16	1108162-43				
29	Vial 17	1108162-46				
30	Vial 2	Reagent Blank				
31	Vial 3	SEQ-CCV2				
32	Vial 4	SEQ-LCV2				
33	Vial 18	1108168-01@20				
34	Vial 19	1108168-02@20				
35	Vial 20	1108168-03@20				
36	Vial 21	1108168-04@20				
37	Vial 22	1108168-05@20				
38	Vial 23	1108168-06@20				
39	Vial 24	1108168-07@20				
40	Vial 25	1108168-08@20				
41	Vial 26	1108168-09@20 – RR 4x None				
42	Vial 27	1108168-10@20 – RR 10X None				
43	Vial 28	1H24012-MS1				
44	Vial 29	1H24012-MSD1				
45	Vial 81	Reagent Blank				
46	Vial 3	SEQ-CCV3				
47	Vial 4	SEQ-LCV3				
48	Vial 5	ICS2				
49	Vial 81	Reagent Blank				
50	Vial 81	Reagent Blank				
51	Vial 30	1H24014-BLK1				

409
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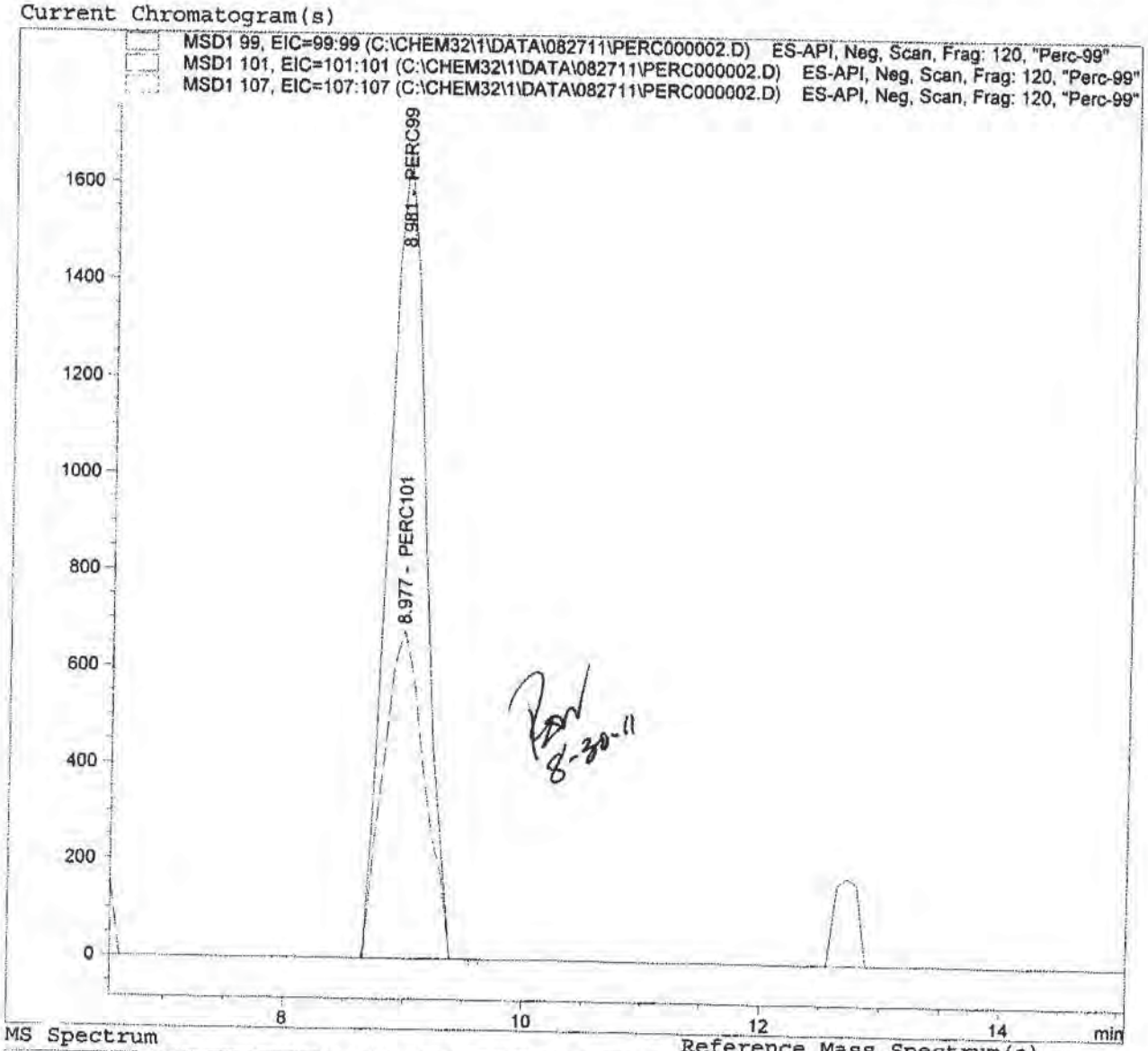
8-30-11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 31	1H24014-BS1				
53	Vial 32	1108216-01				
54	Vial 33	1108216-02				
55	Vial 34	1108216-03				
56	Vial 35	1108216-04				
57	Vial 36	1108229-01 – RR 2x				
58	Vial 37	1108229-02				
59	Vial 81	Reagent Blank				
60	Vial 38	1H24014-MS1				
61	Vial 81	Reagent Blank				
62	Vial 39	1H24014-MSD1				
63	Vial 82	Reagent Blank				
64	Vial 3	SEQ-CCV4				
65	Vial 4	SEQ-LCV4				

410

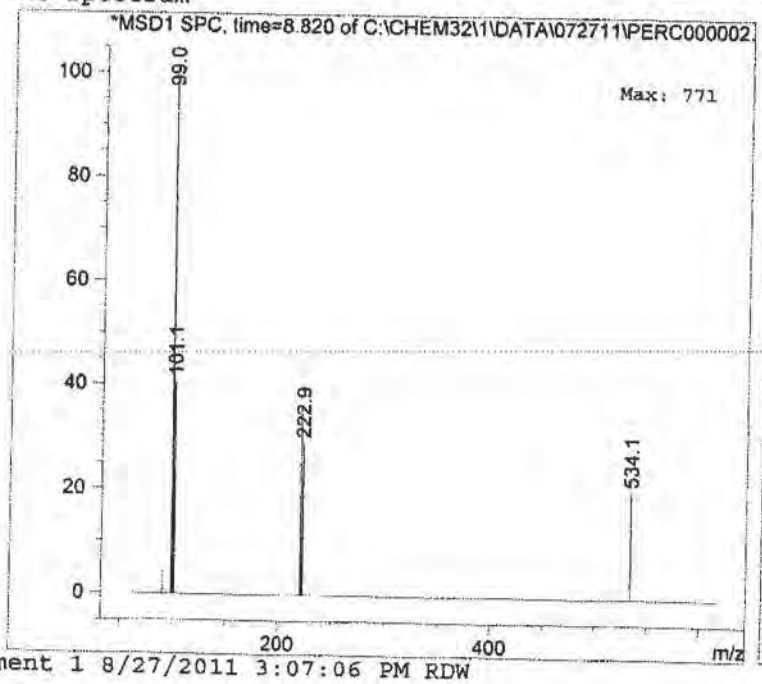
Print of all graphic windows

Current Chromatogram(s)

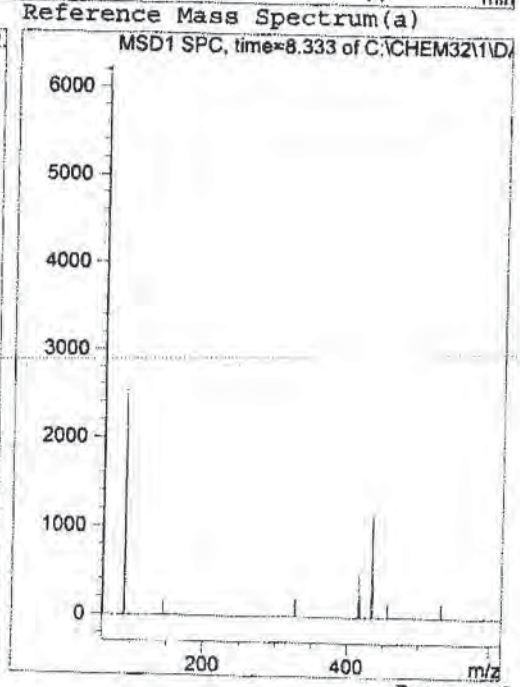


Rod 8-30-11

MS Spectrum



Reference Mass Spectrum(a)

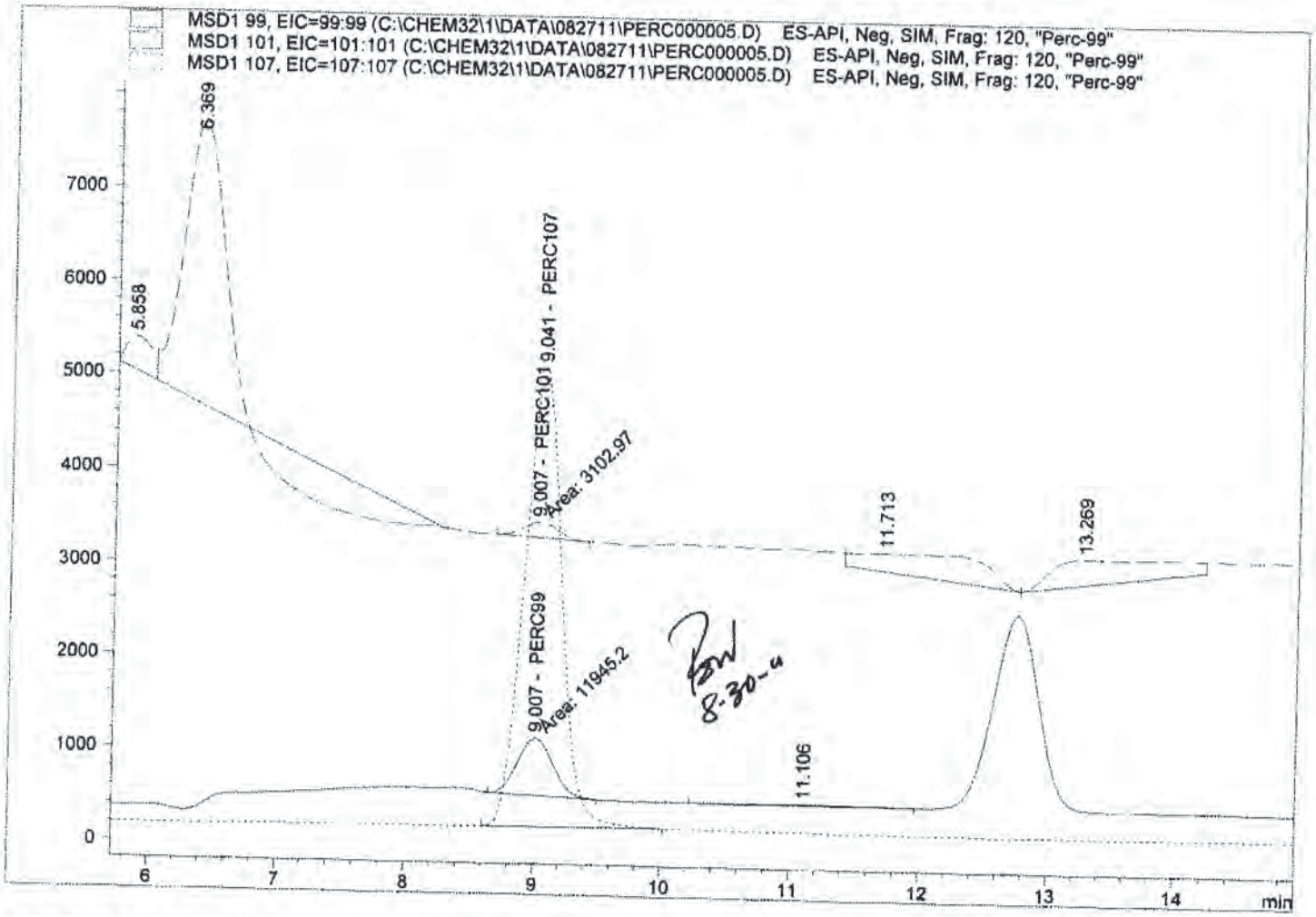


Instrument 1 8/27/2011 3:07:06 PM RDW

1110004

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

Acq. Operator	: RDW	Seq. Line	: 5
Acq. Instrument	: Instrument 1	Location	: Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	8/30/2011 11:18:25 AM
Multiplier:	:	1.0000
Dilution:	:	1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

```
==================================================================
Acq. Operator    : RDW                          Seq. Line :   5
Acq. Instrument  : Instrument 1                  Location : Vial 72
Injection Date   : 8/27/2011 2:45:49 PM                Inj :   1
                                               Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed     : 8/30/2011 11:18:18 AM by RDW
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	1.19452e4	5.57528e-1	3.36653e-1		PERC99

Totals without ISTD(s) : 3.36653e-1

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	3102.96851	2.35559	3.69487e-1		PERC101

Totals without ISTD(s) : 3.69487e-1

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.041	BBA I	1	9.89118e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

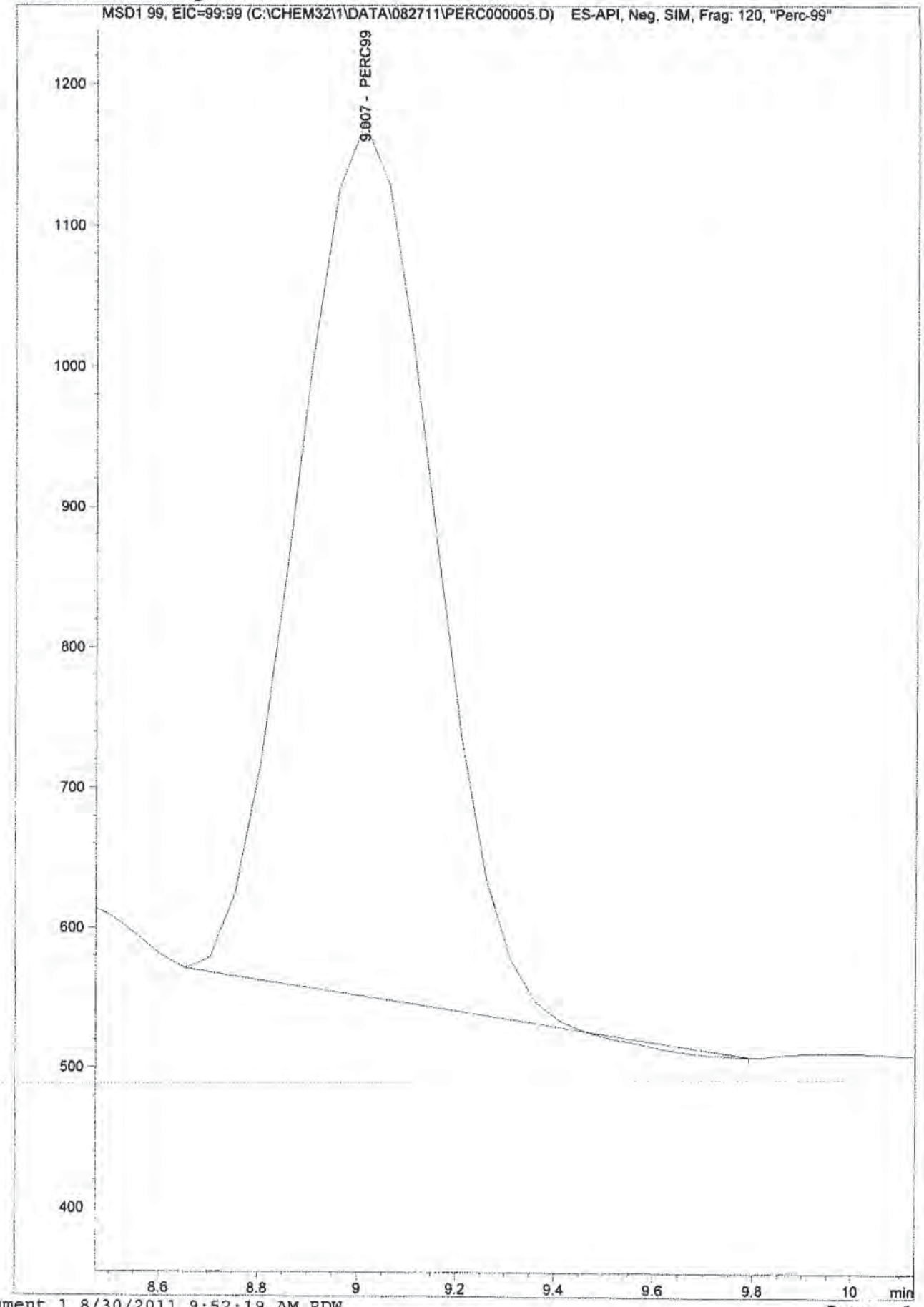
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

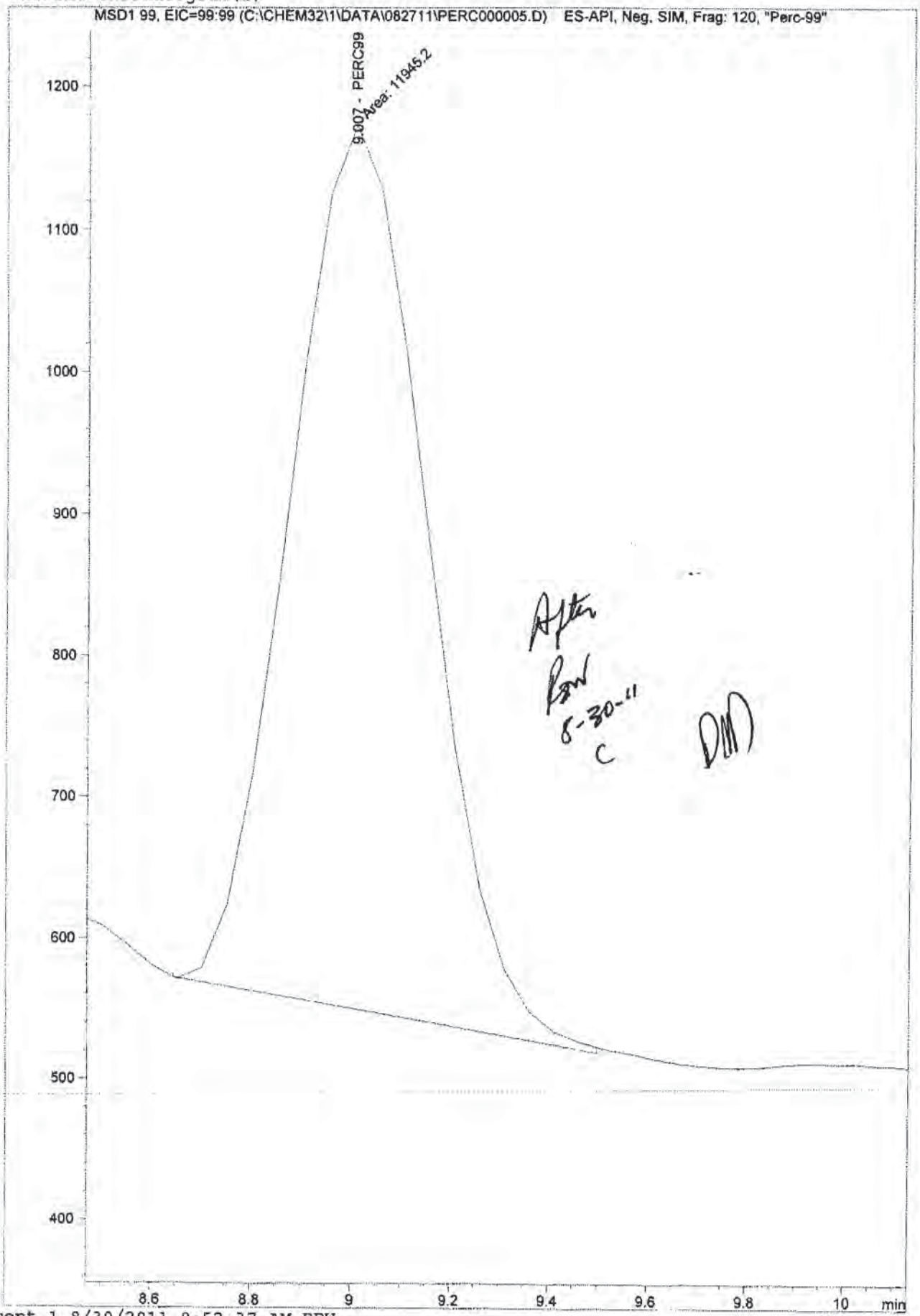
*** End of Report ***

Current Chromatogram(s)



Instrument 1 8/30/2011 9:52:19 AM RDW

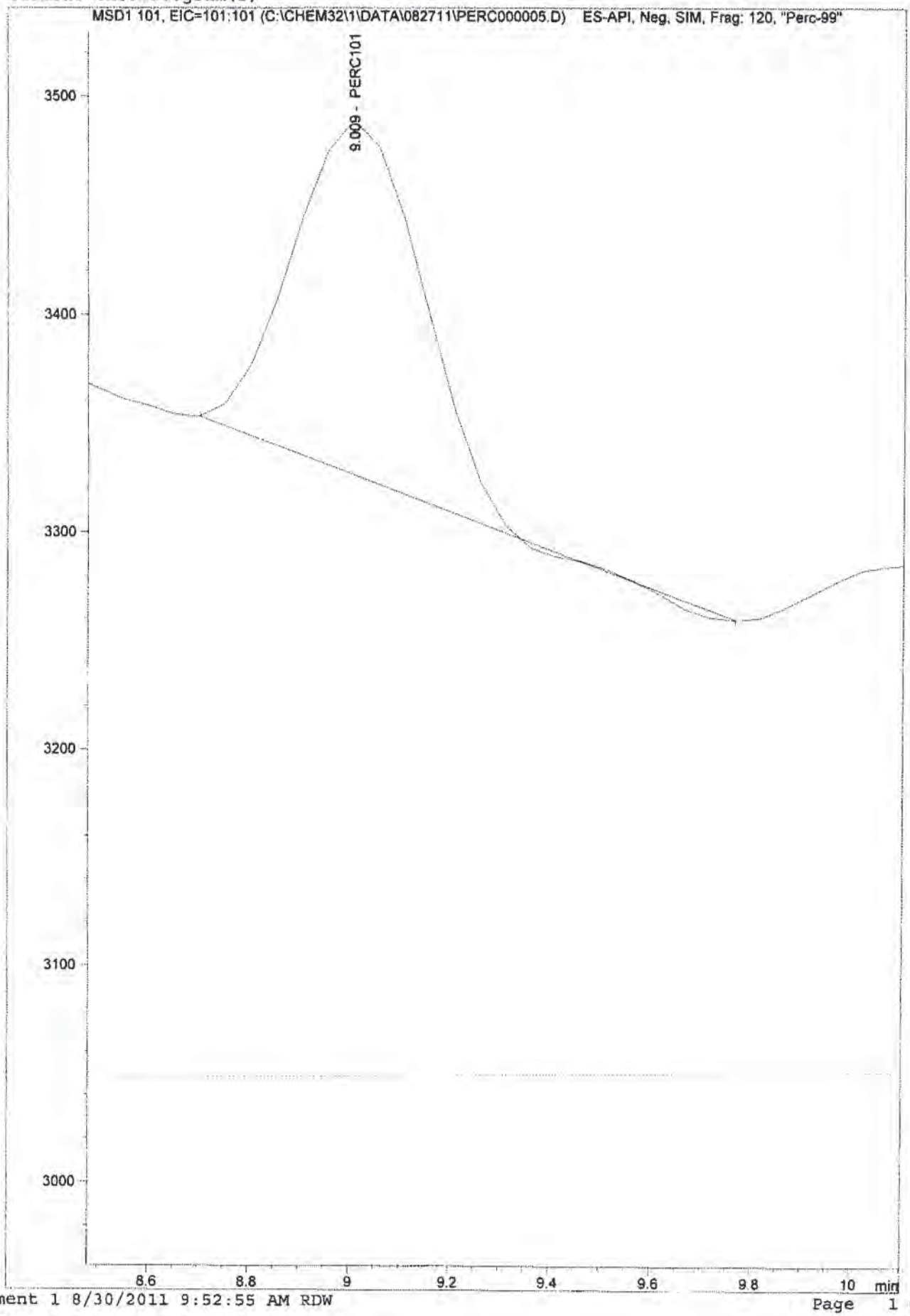
Current Chromatogram(s)



Instrument 1 8/30/2011 9:52:37 AM RDW

1110004

Current Chromatogram(s)

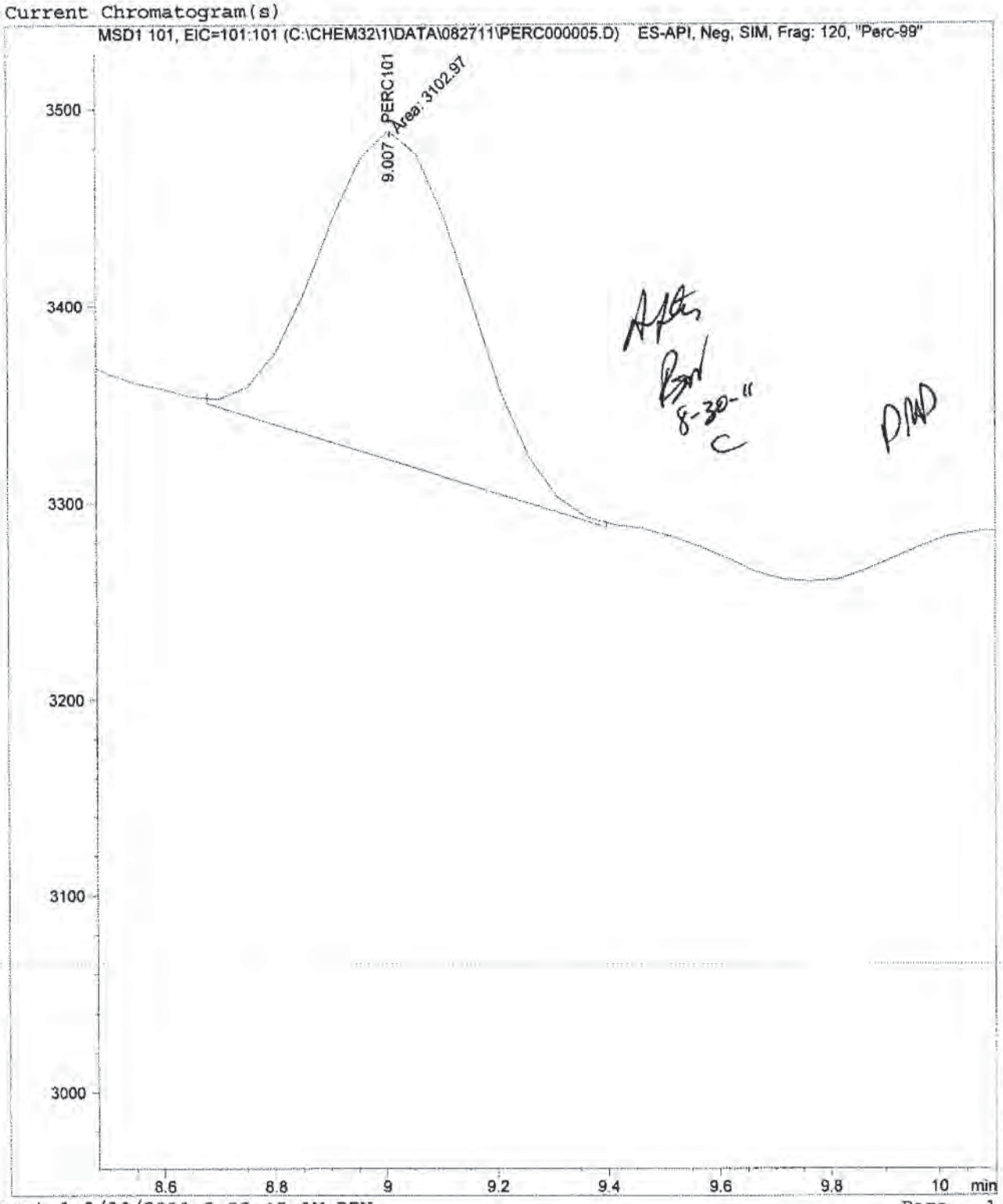


Print of Window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name : SEQ-CAL2

Acq. Operator	: RDW	Seq. Line :	5
Acq. Instrument	: Instrument 1	Location :	Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj :	1
		Inj Volume :	100 µl

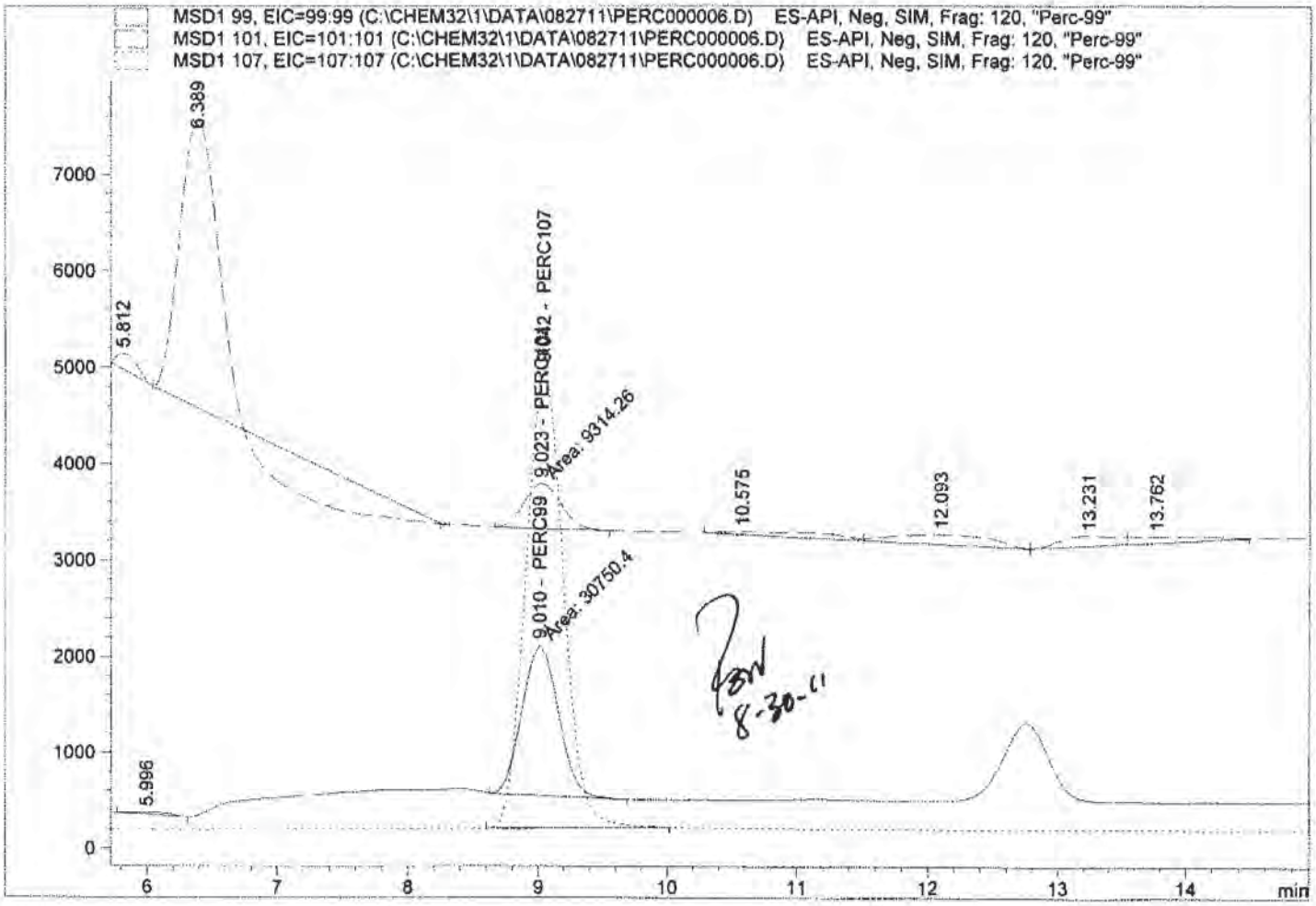
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



8-30-11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

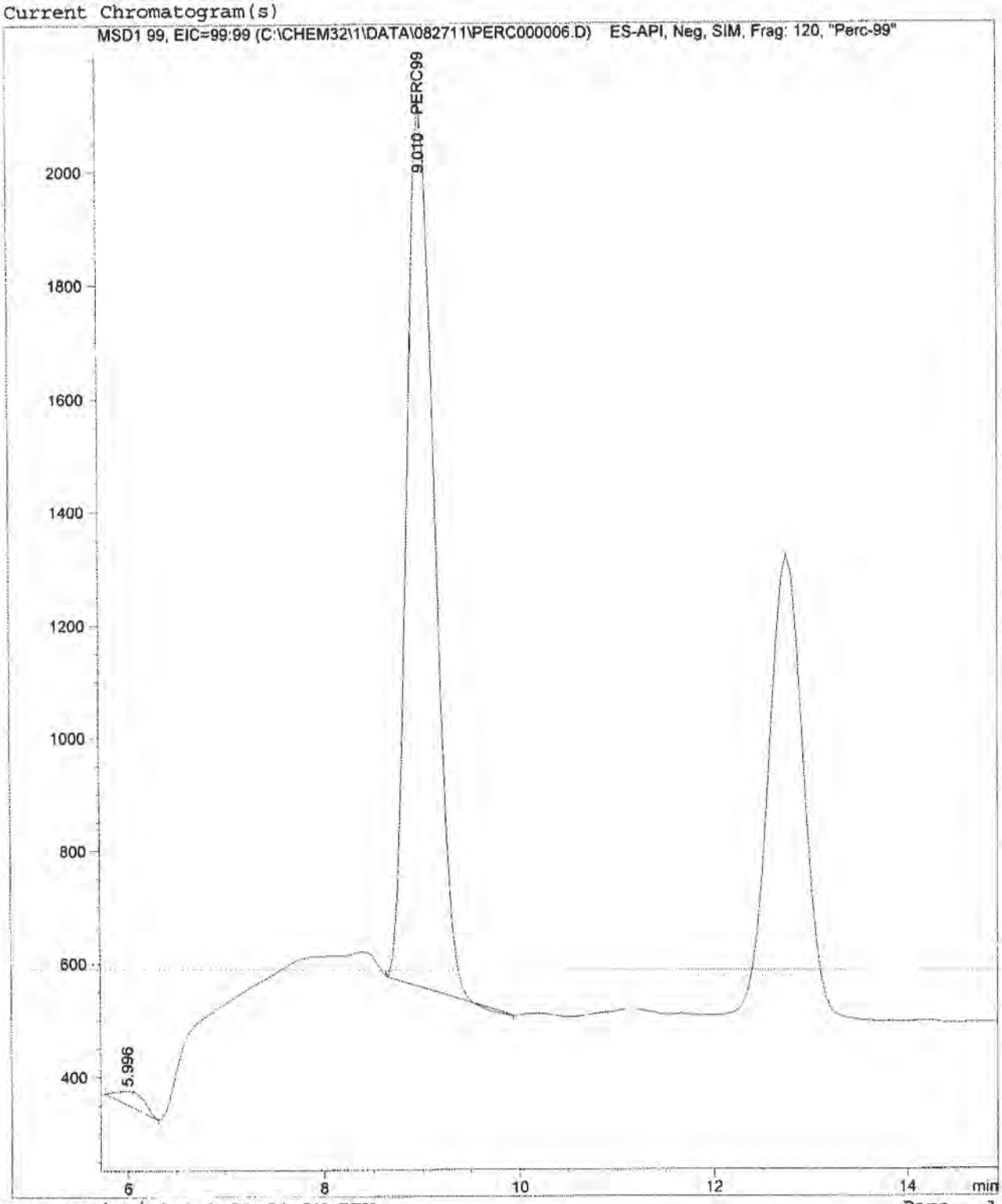
```
==================================================================
Acq. Operator   : RDW                          Seq. Line :   6
Acq. Instrument : Instrument 1                  Location : Vial 73
Injection Date  : 8/27/2011 3:04:43 PM               Inj :   1
                                               Inj Volume : 100 µl
Acq. Method     : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed    : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed    : 8/30/2011 11:18:18 AM by RDW
==================================================================


Signal 1: MSD1 99, EIC=99:99

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.010 MM        1 3.07504e4  7.23573e-1    1.15415     PERC99

Totals without ISTD(s) :                 1.15415


Signal 2: MSD1 101, EIC=101:101

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.023 MM        1 9314.26172    2.45593    1.18656     PERC101

Totals without ISTD(s) :                 1.18656


Signal 3: MSD1 107, EIC=107:107

RetTime  Type  ISTD    Area      Amt/Area    Amount   Grp   Name
 [min]         used               ratio      [ug/L]
-------|------|----|----------|----------|----------|--|------------------
  9.042 BBA  I    1 9.63925e4     1.00000    5.00000     PERC107

Totals without ISTD(s) :                 0.00000


2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==================================================================
                        *** End of Report ***
```

Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Instrument 1 8/30/2011 9:54:24 AM RDW

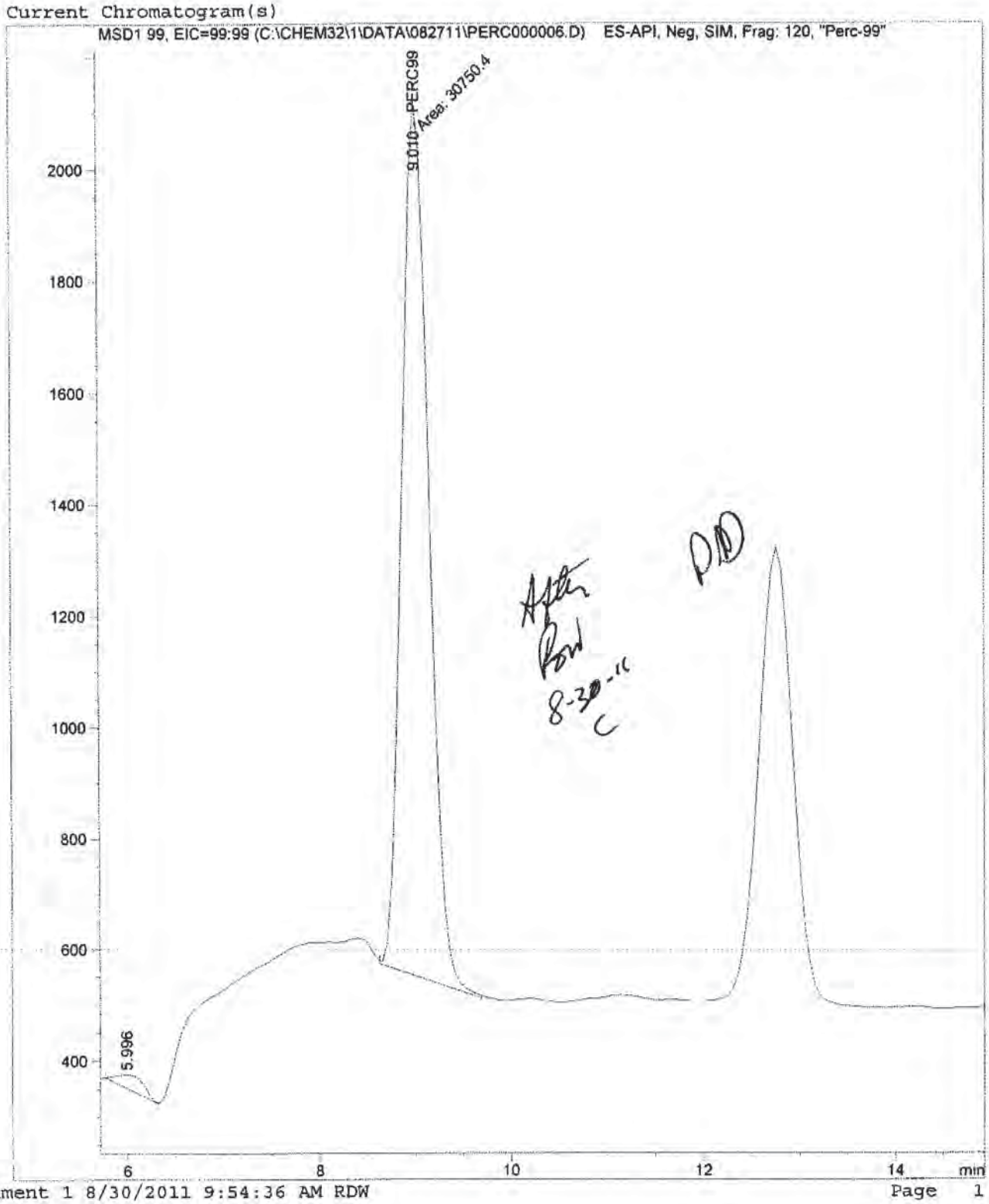
Print of window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

==========

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)

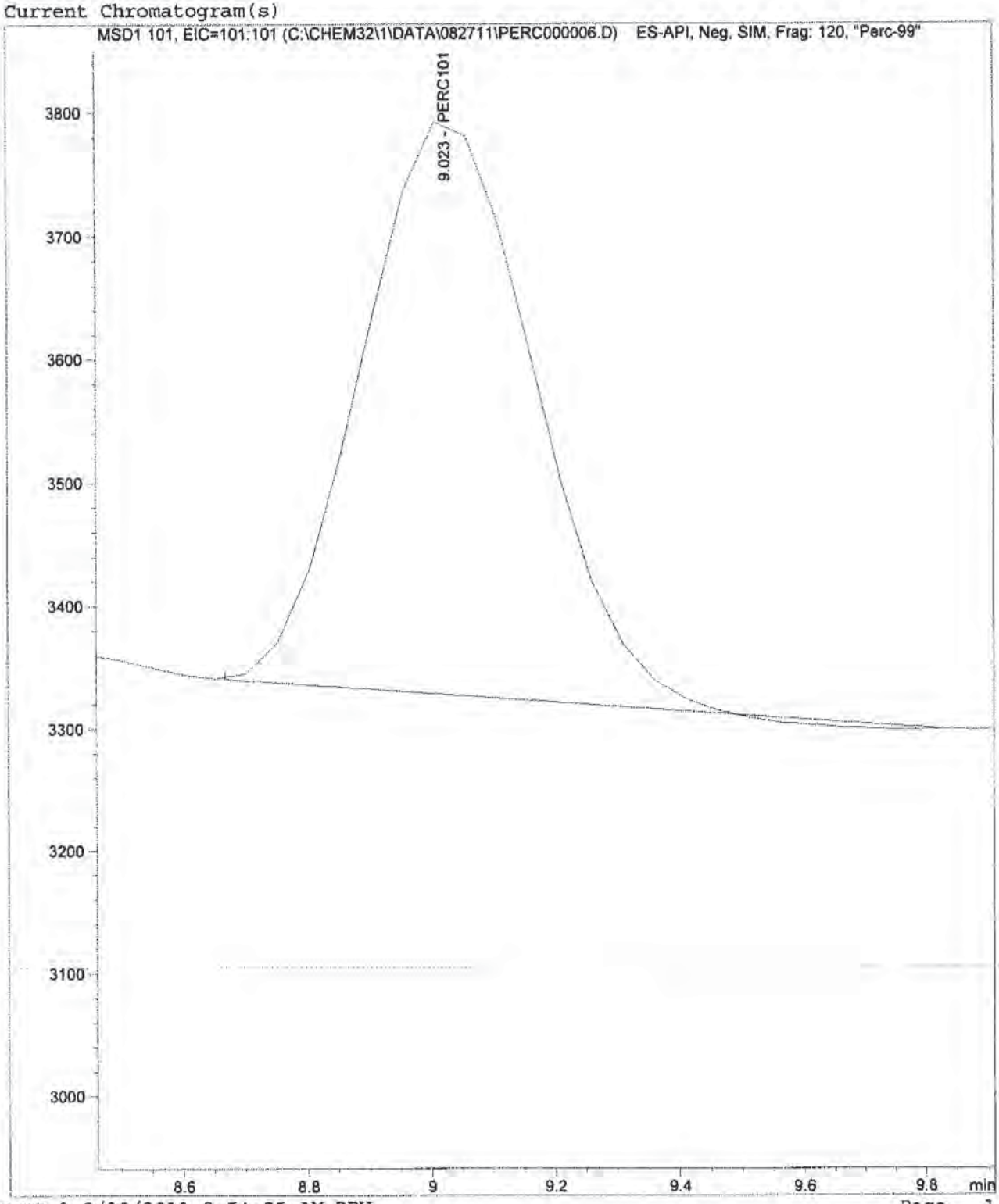


Print of Window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator	: RDW	Seq. Line :	6
Acq. Instrument	: Instrument 1	Location :	Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj :	1
		Inj Volume :	100 µl

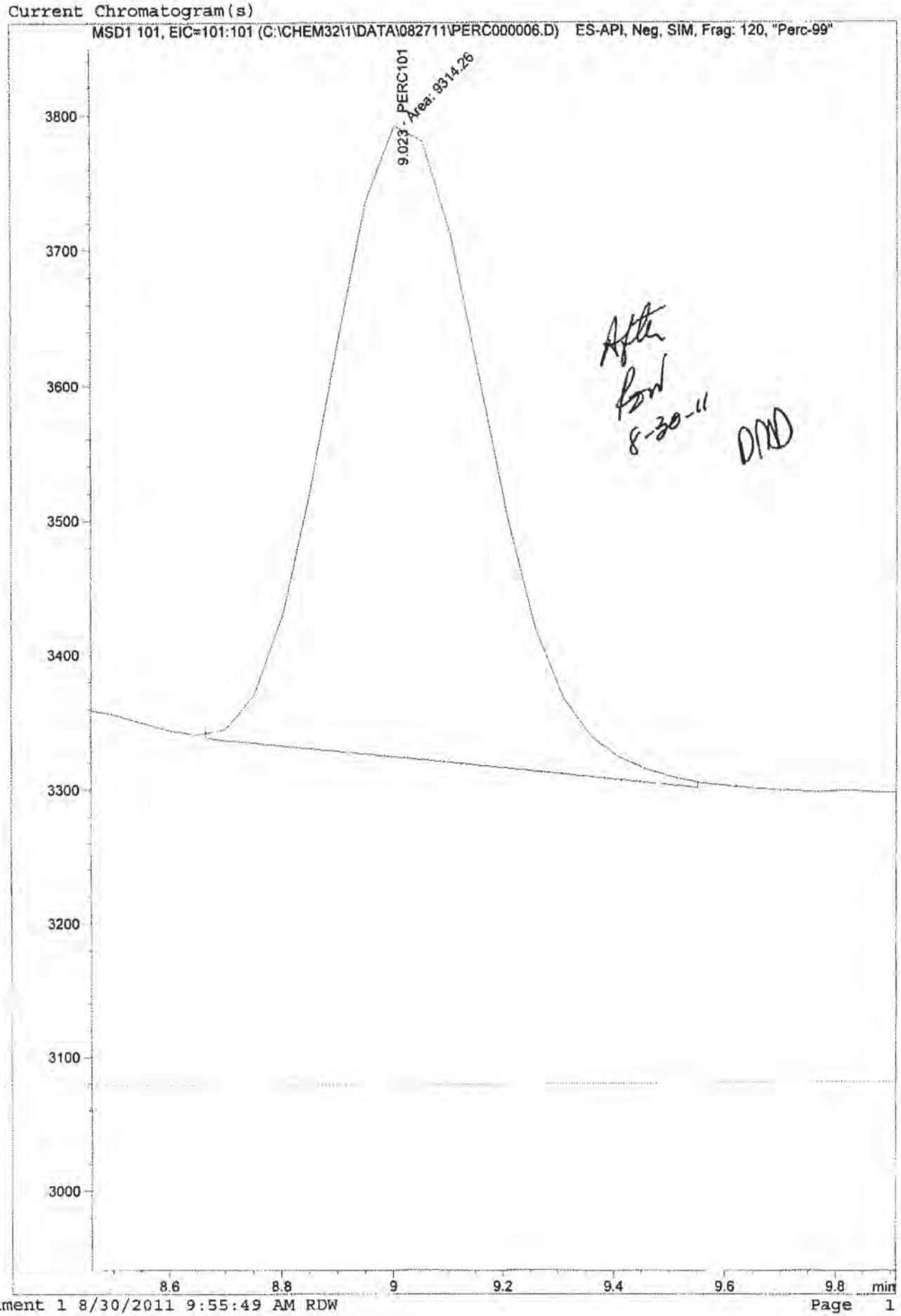
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Instrument 1 8/30/2011 9:54:55 AM RDW

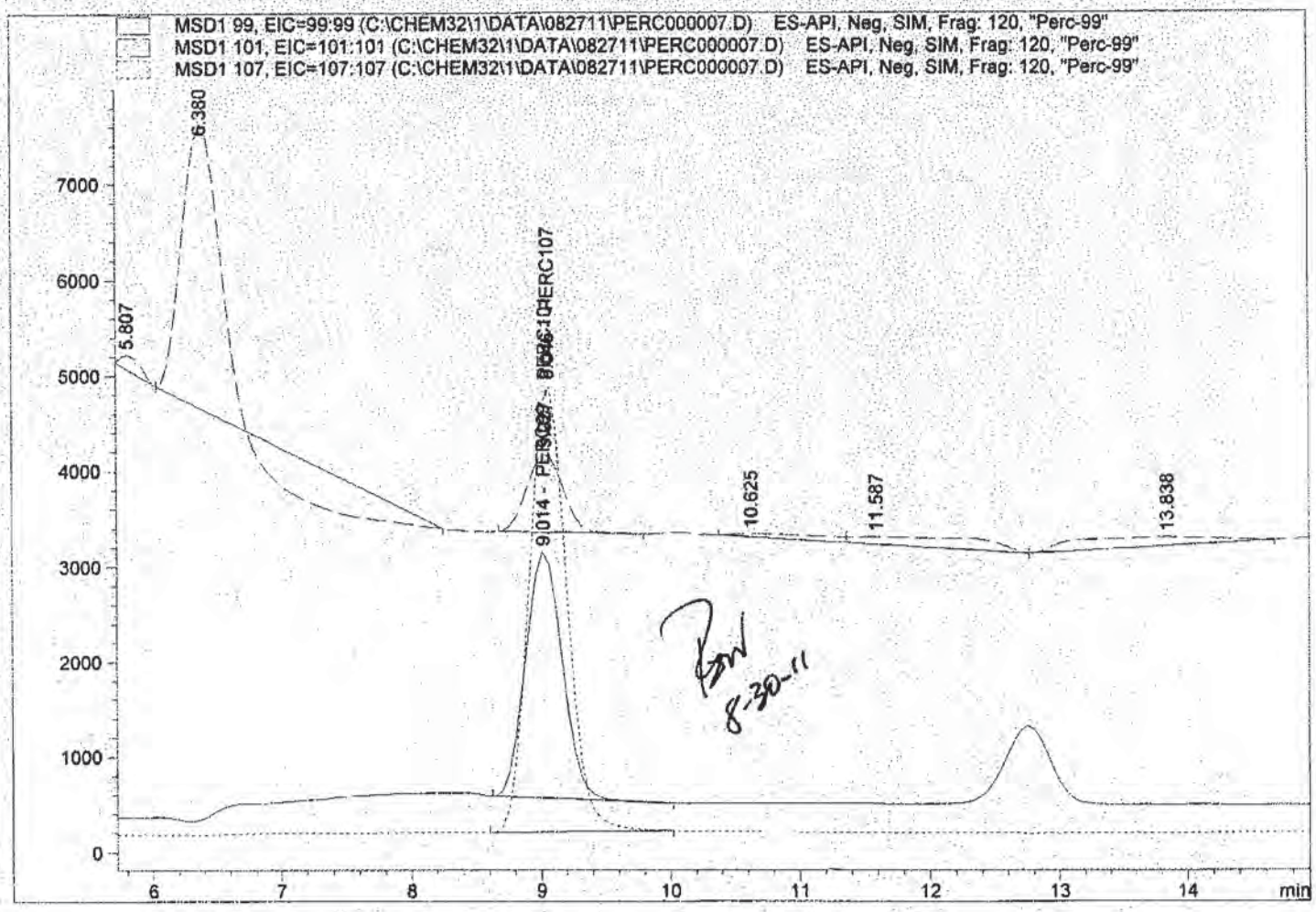
Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000007.D
Sample Name: SEQ-CAL4

Acq. Operator	: RDW	Seq. Line :	7
Acq. Instrument	: Instrument 1	Location :	Vial 74
Injection Date	: 8/27/2011 3:23:33 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC00007.D
Sample Name: SEQ-CAL4

==========

Acq. Operator : RDW
Seq. Line : 7
Acq. Instrument : Instrument 1
Location : Vial 74
Injection Date : 8/27/2011 3:23:33 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.014	VBA	1	5.09053e4	7.64671e-1	2.05443		PERC99

Totals without ISTD(s) : 2.05443

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.027	BV	1	1.57252e4	2.47608	2.05501		PERC101

Totals without ISTD(s) : 2.05501

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.046	BBA I	1	9.47365e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

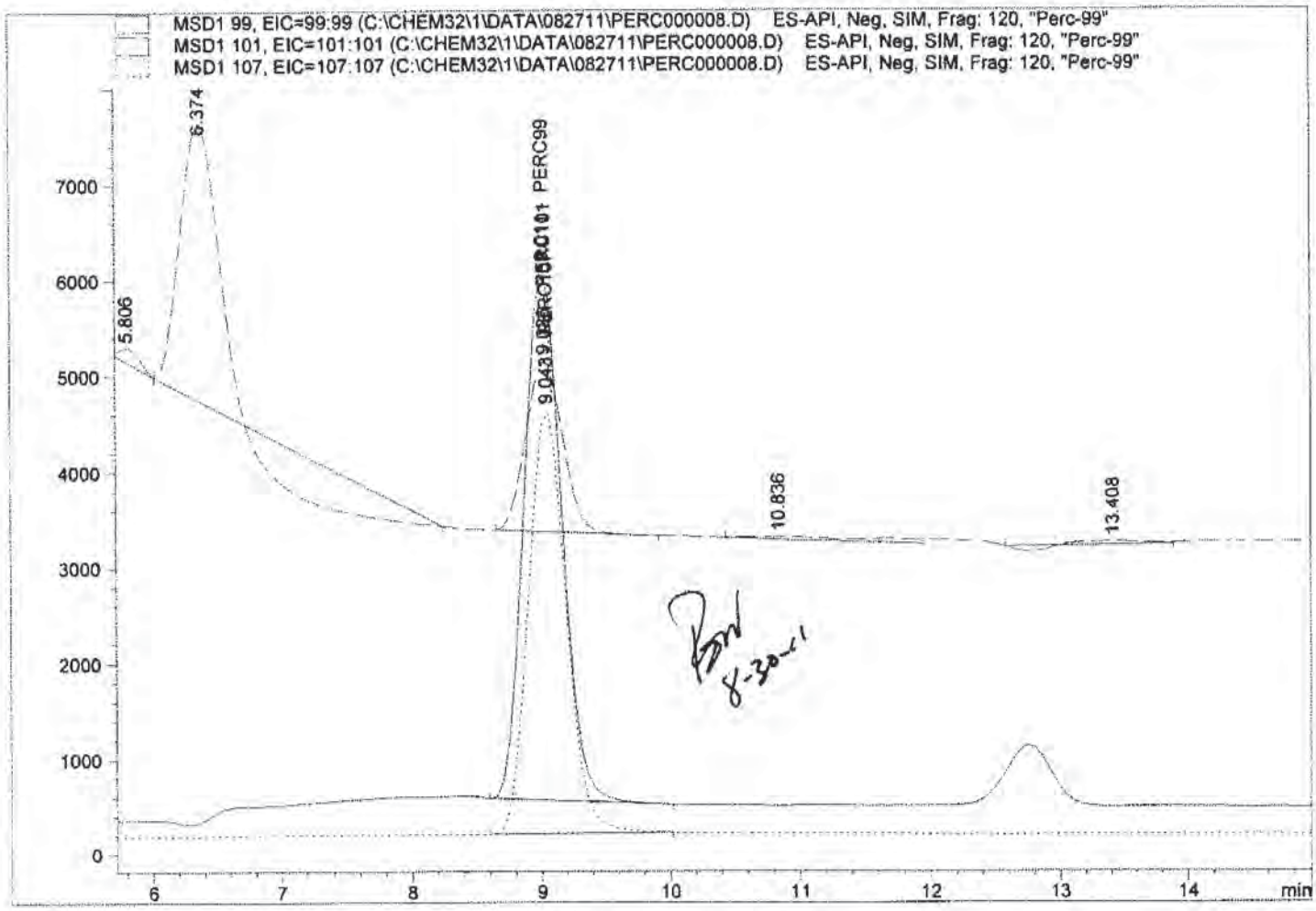
Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

==========

Acq. Operator	: RDW	Seq. Line :	8
Acq. Instrument	: Instrument 1	Location :	Vial 75
Injection Date	: 8/27/2011 3:42:20 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========



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Internal Standard Report

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Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

Acq. Operator	: RDW	Seq. Line :	8
Acq. Instrument	: Instrument 1	Location :	Vial 75
Injection Date	: 8/27/2011 3:42:20 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.011	VBA	1	1.11488e5	7.98669e-1	4.94582		PERC99

Totals without ISTD(s) : 4.94582

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.026	BB	1	3.48506e4	2.49212	4.82415		PERC101

Totals without ISTD(s) : 4.82415

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.043	BBA I	1	9.00178e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

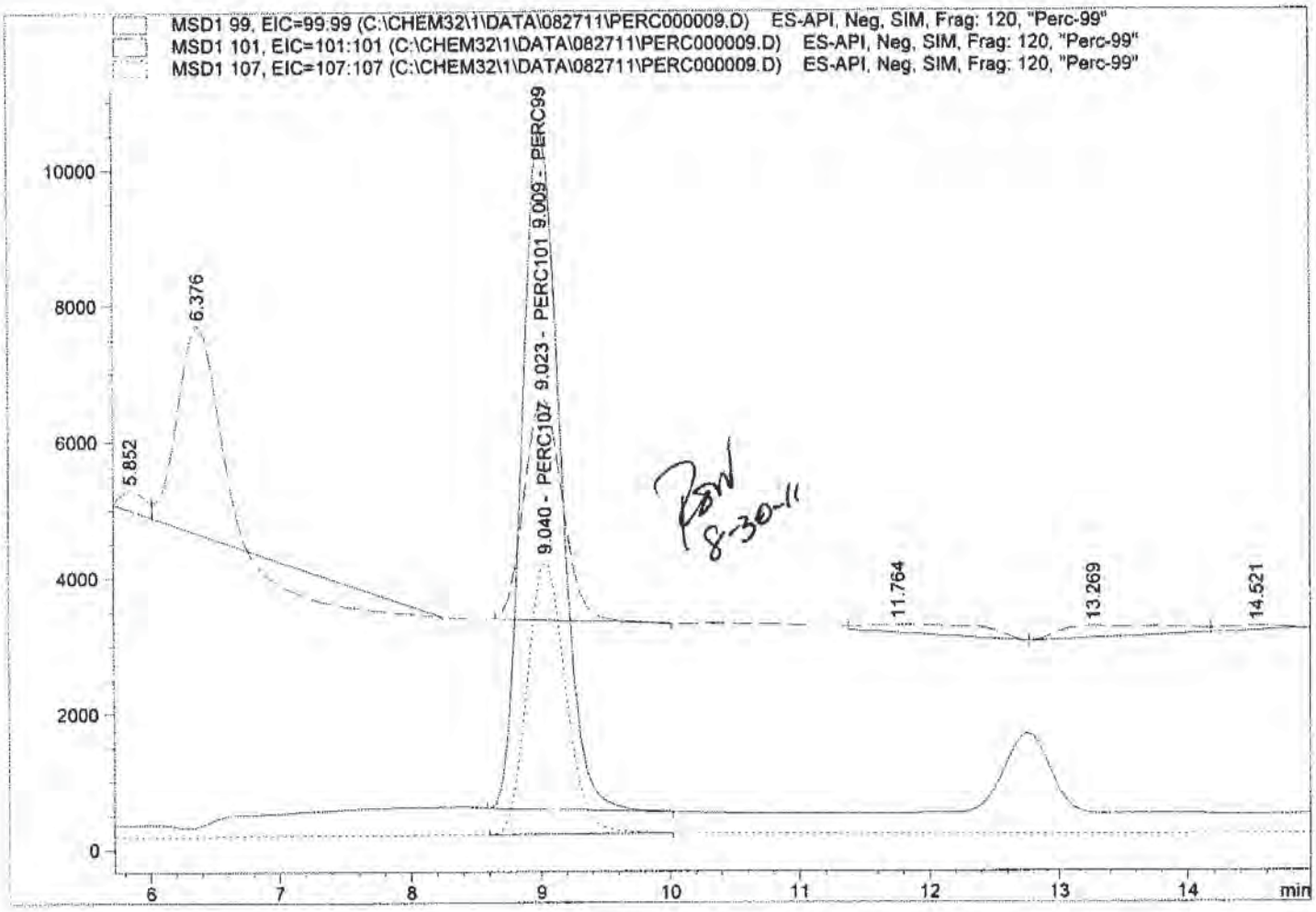
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

Acq. Operator	: RDW	Seq. Line :	9
Acq. Instrument	: Instrument 1	Location :	Vial 76
Injection Date	: 8/27/2011 4:01:04 PM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

==========

Acq. Operator : RDW
Seq. Line : 9
Acq. Instrument : Instrument 1
Location : Vial 76
Injection Date : 8/27/2011 4:01:04 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.009	VBA	1	2.05426e5	8.11639e-1	10.00896		PERC99

Totals without ISTD(s) : 10.00896

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.023	BBA	1	6.71082e4	2.49838	10.06479		PERC101

Totals without ISTD(s) : 10.06479

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.040	BBA I	1	8.32912e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

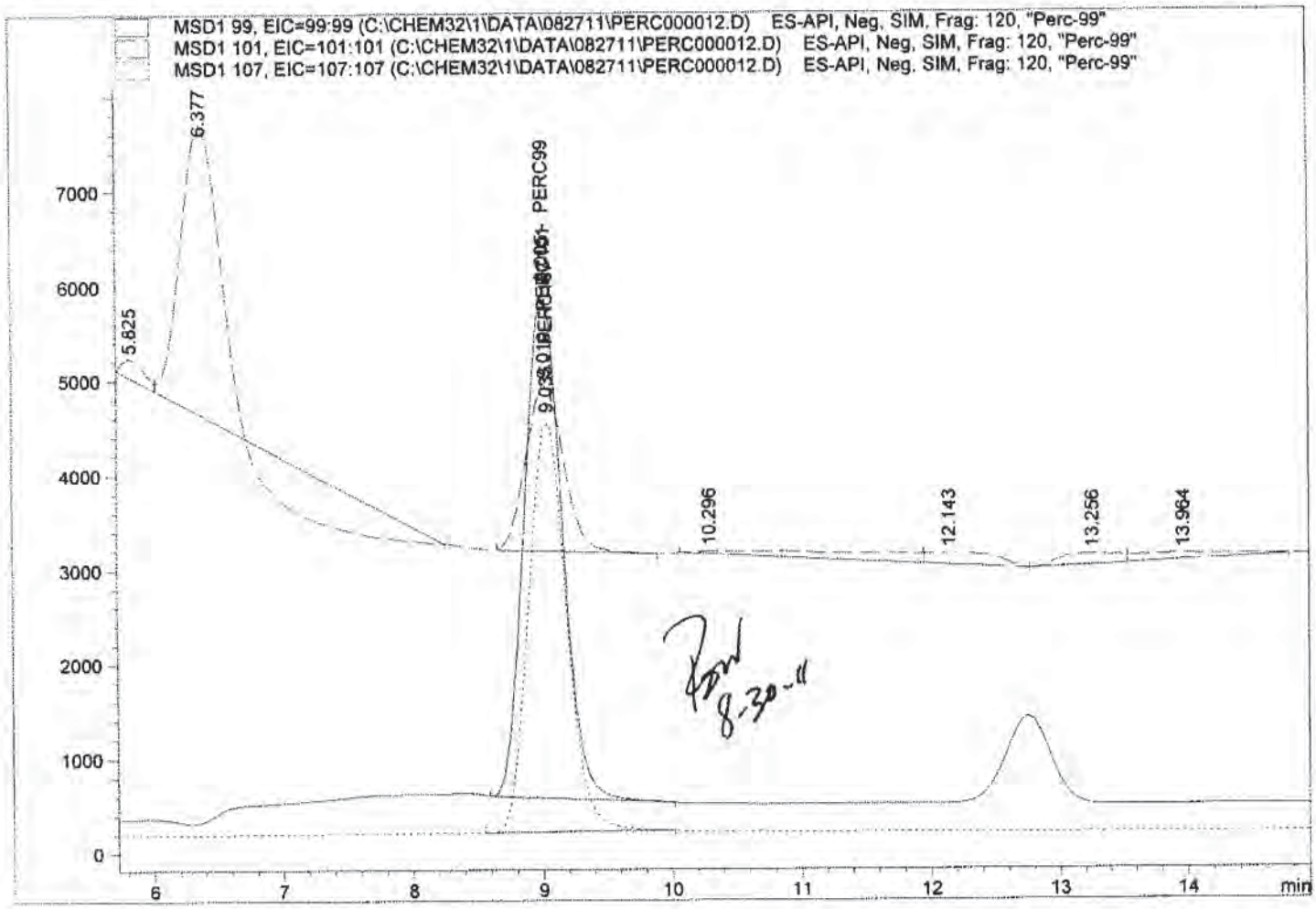
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

Acq. Operator	: RDW	Seq. Line	: 12
Acq. Instrument	: Instrument 1	Location	: Vial 79
Injection Date	: 8/27/2011 4:57:17 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

==========

Acq. Operator : RDW
Acq. Instrument : Instrument 1
Injection Date : 8/27/2011 4:57:17 PM

Seq. Line : 12
Location : Vial 79
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.005	VBA	1	1.08549e5	7.98255e-1	4.86590		PERC99

Totals without ISTD(s) : 4.86590

97.3% PD

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.019	BV	1	3.53562e4	2.49243	4.94863		PERC101

Totals without ISTD(s) : 4.94863

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.035	BBA I	1	8.90373e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

Sequence Table:

Quantification Part:

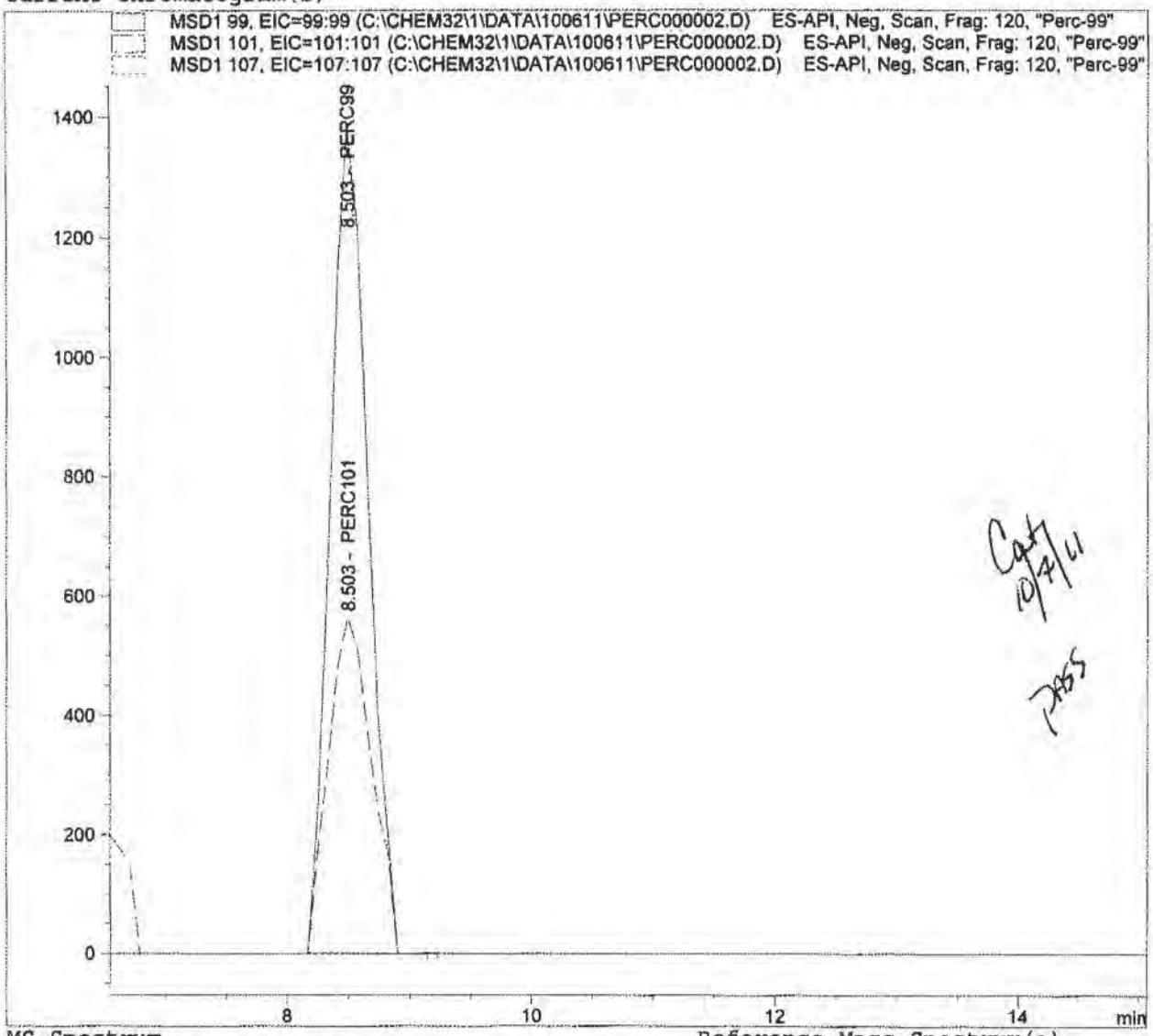
Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 3	SEQ-CCV1				
5	Vial 4	SEQ-LCV1				
6	Vial 5	ICS				
7	Vial 2	Reagent Blank				
8	Vial 2	Reagent Blank				
9	Vial 7	1J05014-BLK1				
10	Vial 8	1J05014-BS1				
11	Vial 9	1109223-01				
12	Vial 10	1J05014-MS1				
13	Vial 11	1J05014-MSD1				
14	Vial 12	1109223-02				
15	Vial 13	1109223-03				
16	Vial 14	1109223-04				
17	Vial 15	1109223-05				
18	Vial 16	1109223-06				
19	Vial 2	Reagent Blank				
20	Vial 3	SEQ-CCV2				
21	Vial 4	SEQ-LCV2				
22	Vial 17	1109224-01				
23	Vial 18	1109224-02				
24	Vial 19	1109224-03				
25	Vial 20	1109224-04				
26	Vial 21	1109244-01@20				
27	Vial 22	1109246-01@20				
28	Vial 2	Reagent Blank				
29	Vial 3	SEQ-CCV3				
30	Vial 4	SEQ-LCV3				
31	Vial 23	1J05023-BLK1				
32	Vial 24	1J05023-BS1				
33	Vial 25	1109176-02@20				
34	Vial 26	1J05023-MS1@20				
35	Vial 27	1J05023-MSD1@20				
36	Vial 28	1109176-03				
37	Vial 29	1109193-02				
38	Vial 30	1109193-03				
39	Vial 31	1109193-04 - OLR 2x				
40	Vial 32	1109193-05@5 - OLR 100x				
41	Vial 33	1109193-06 - OLR ~~200x~~ 500x				
42	Vial 34	1109193-07 - OLR 50x				
43	Vial 35	1109193-08 - OLR 200x				
44	Vial 36	1109193-09 - OLR 5000x				
45	Vial 2	Reagent Blank				
46	Vial 3	SEQ-CCV4				
47	Vial 4	SEQ-LCV4				
48	Vial 37	1109193-10				
49	Vial 38	1109193-11				
50	Vial 39	1109194-01@5				
51	Vial 40	1109194-02@5				

Pg 433
Cat
10/7/11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 41	1109194-03@5				
53	Vial 42	1110002-01				
54	Vial 43	1110004-01@500				
55	Vial 44	1110004-02@500				
56	Vial 45	1110010-01				
57	Vial 46	1110010-02				
58	Vial 2	Reagent Blank				
59	Vial 3	SEQ-CCV5				
60	Vial 4	SEQ-LCV5				

Print of all graphic windows

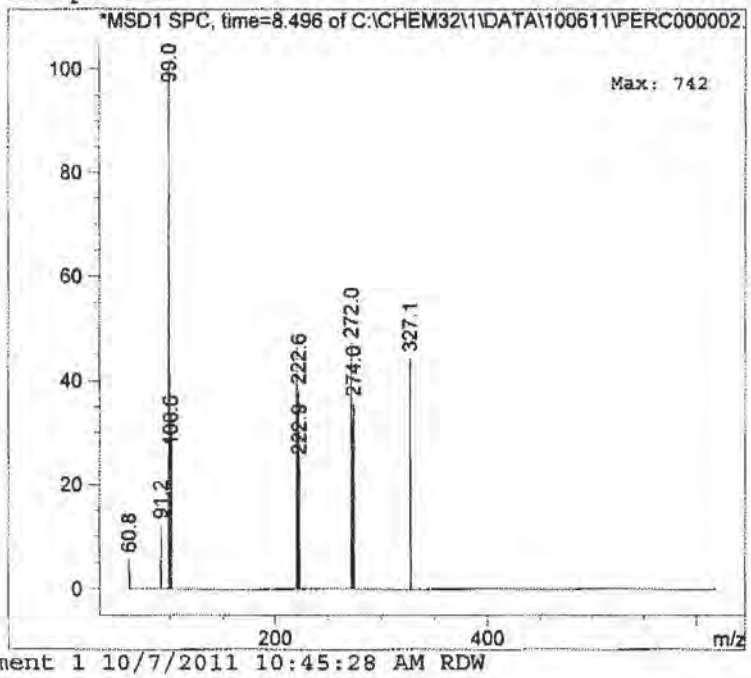
Current Chromatogram(s)



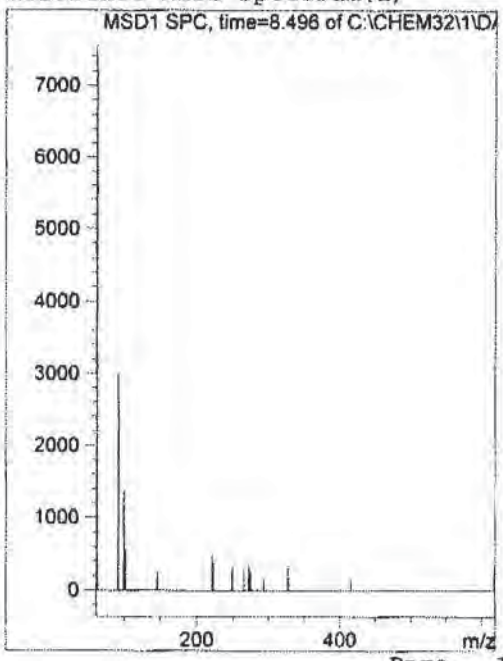
Cat 10/7/11

PASS

MS Spectrum



Reference Mass Spectrum(a)

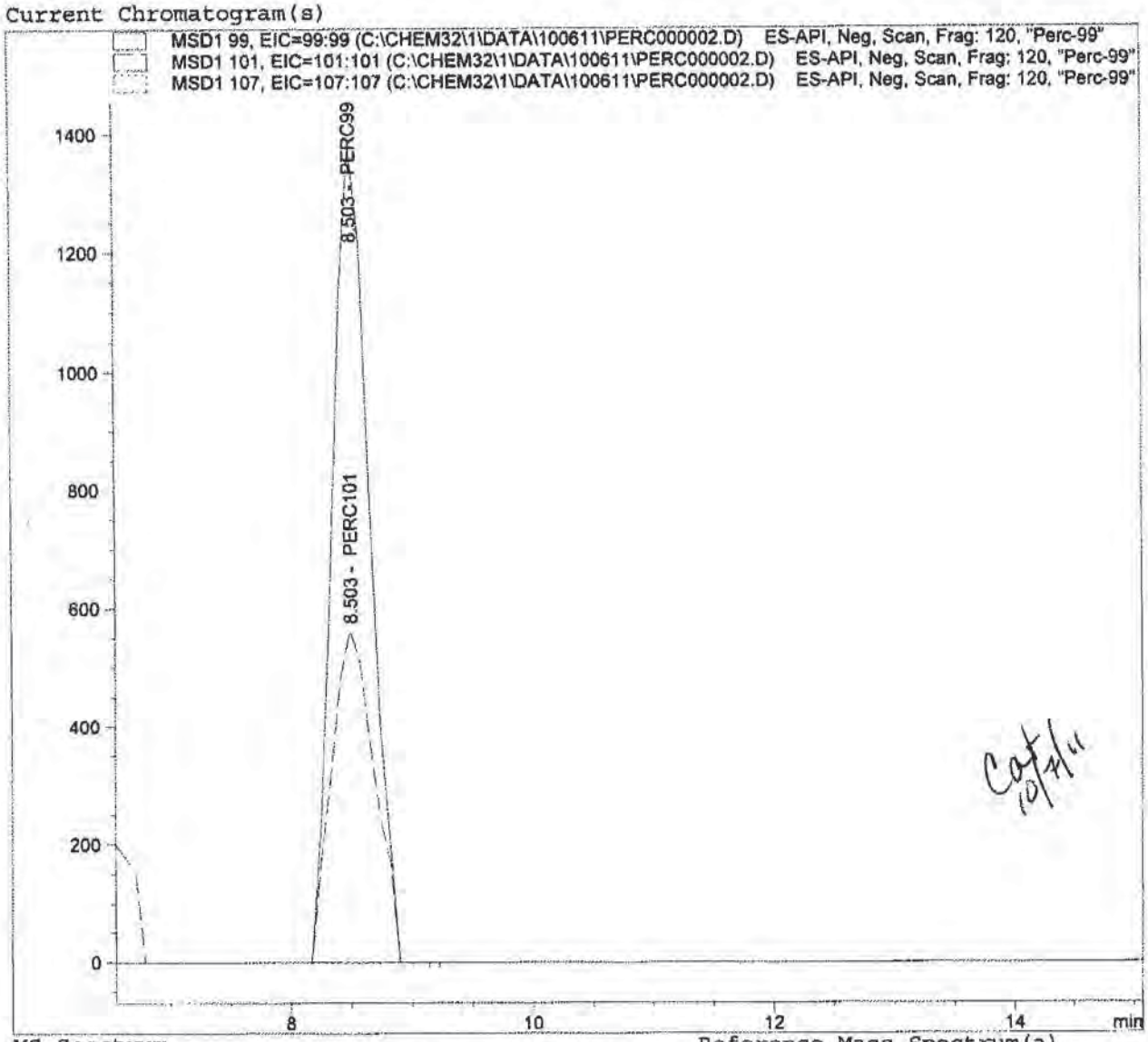


Instrument 1 10/7/2011 10:45:28 AM RDW

1110004

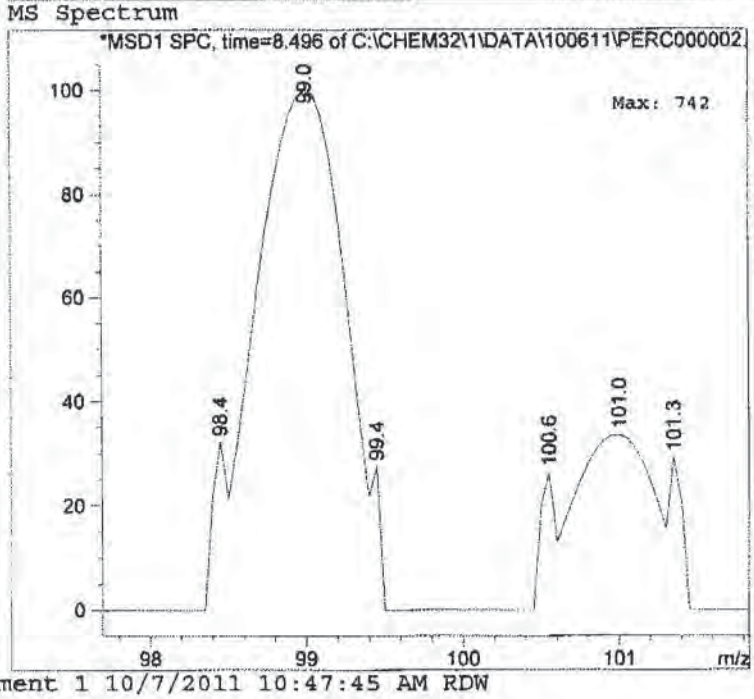
Print of all graphic windows

Current Chromatogram(s)

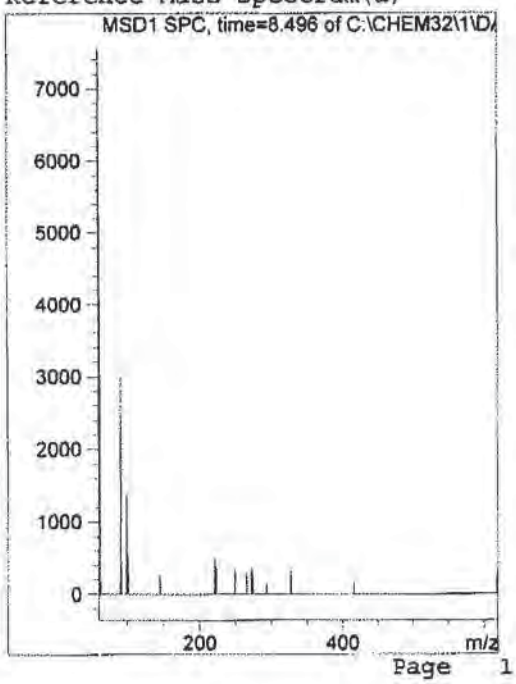


Cof 10/7/11

MS Spectrum



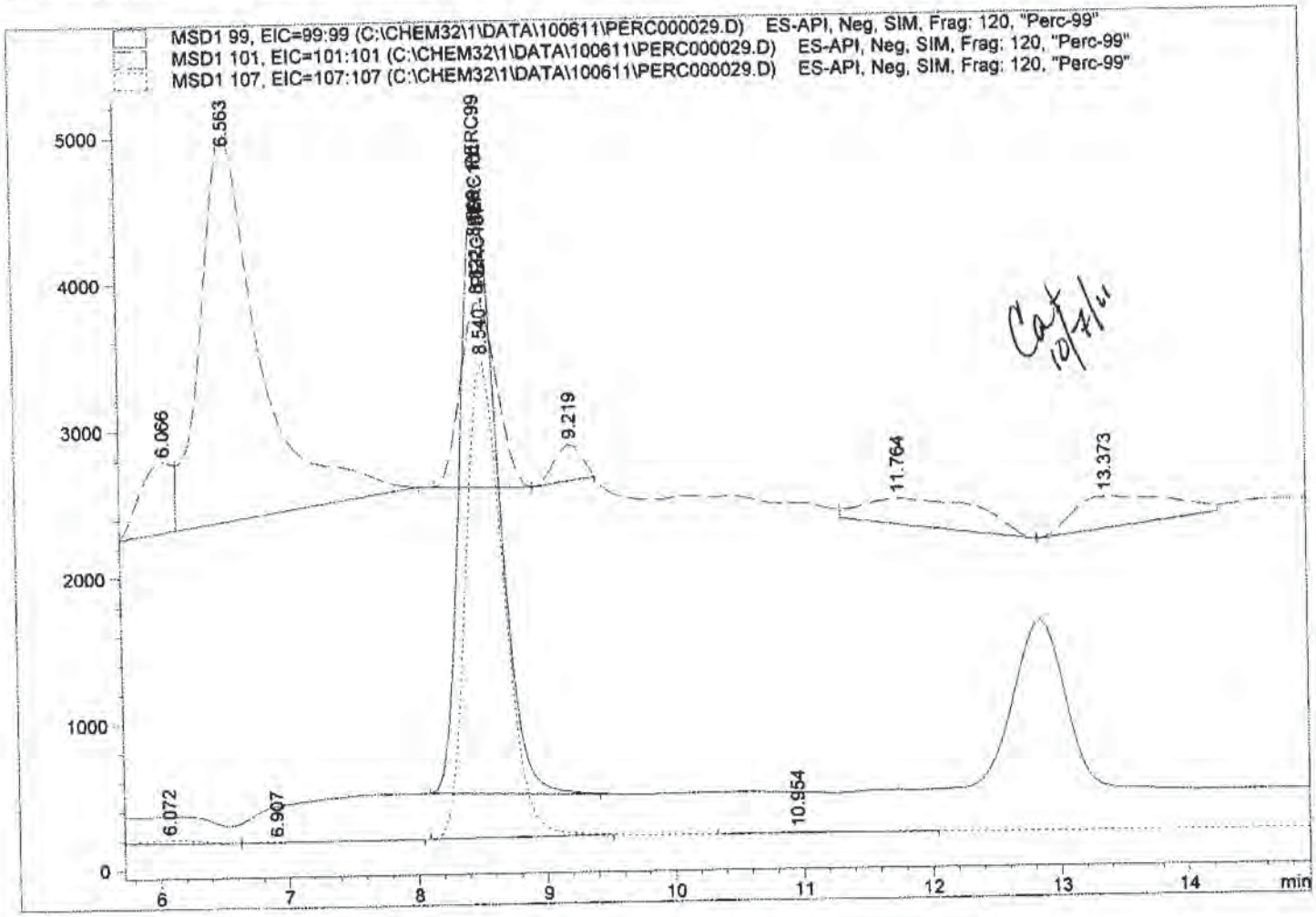
Reference Mass Spectrum(a)



Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

Acq. Operator	: CAT	Seq. Line	: 29
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/6/2011 11:11:31 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

==========

Acq. Operator : CAT
Seq. Line : 29
Acq. Instrument : Instrument 1
Location : Vial 3
Injection Date : 10/6/2011 11:11:31 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BBA	1	8.26208e4	7.99061e-1	5.02390		PERC99

Totals without ISTD(s) : 5.02390

100%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.522	BV	1	2.42131e4	2.49152	4.59076		PERC101

Totals without ISTD(s) : 4.59076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.540	BBA I	1	6.57050e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

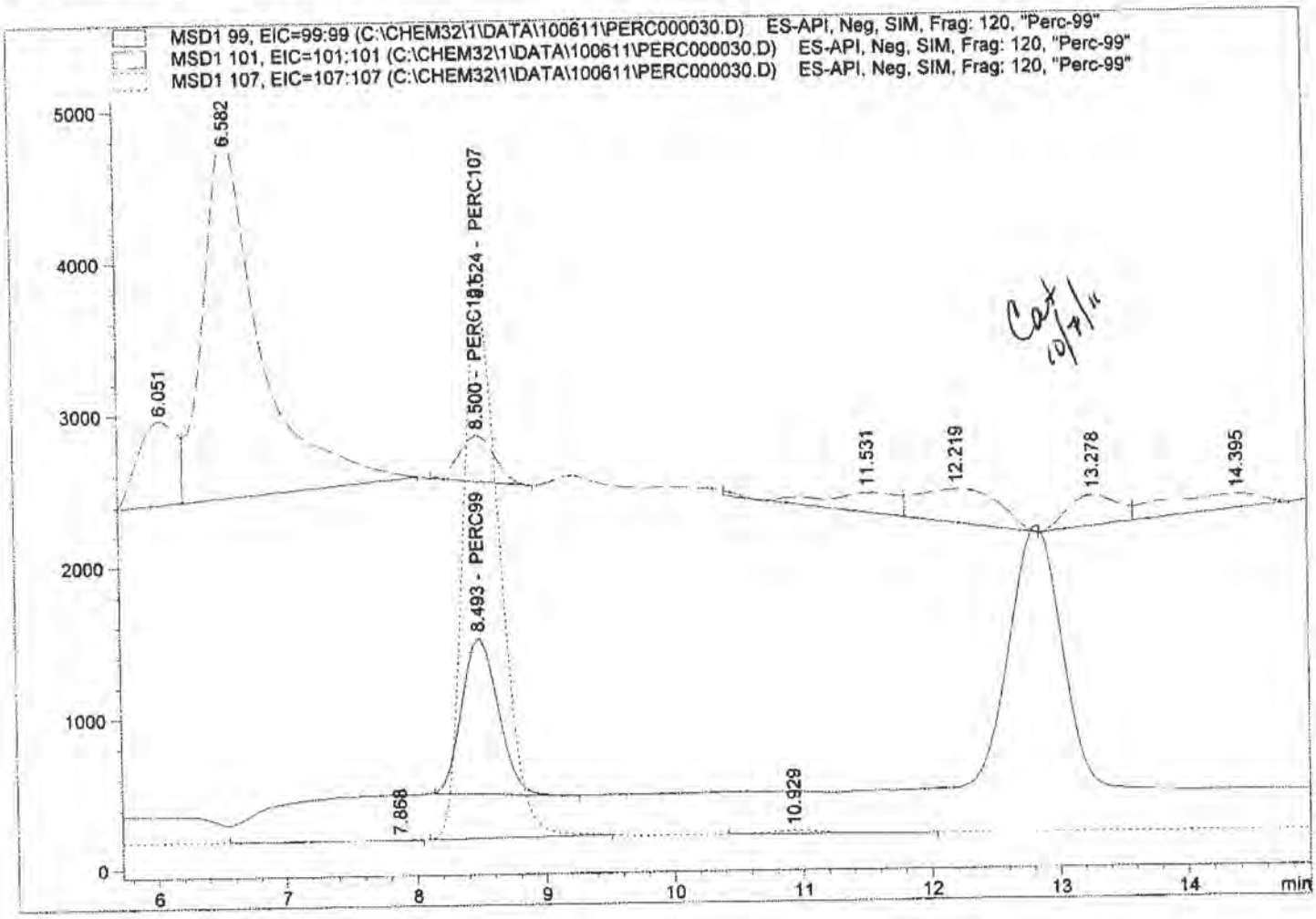
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator	: CAT	Seq. Line	: 30
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/6/2011 11:30:30 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator	: CAT	Seq. Line	: 30
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/6/2011 11:30:30 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.493	BB	1	2.02101e4	7.12747e-1	1.02696		PERC99

Totals without ISTD(s) : 1.02696

103%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BV	1	5799.44482	2.44780	1.01208		PERC101

Totals without ISTD(s) : 1.01208

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.524	BBA I	1	7.01325e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

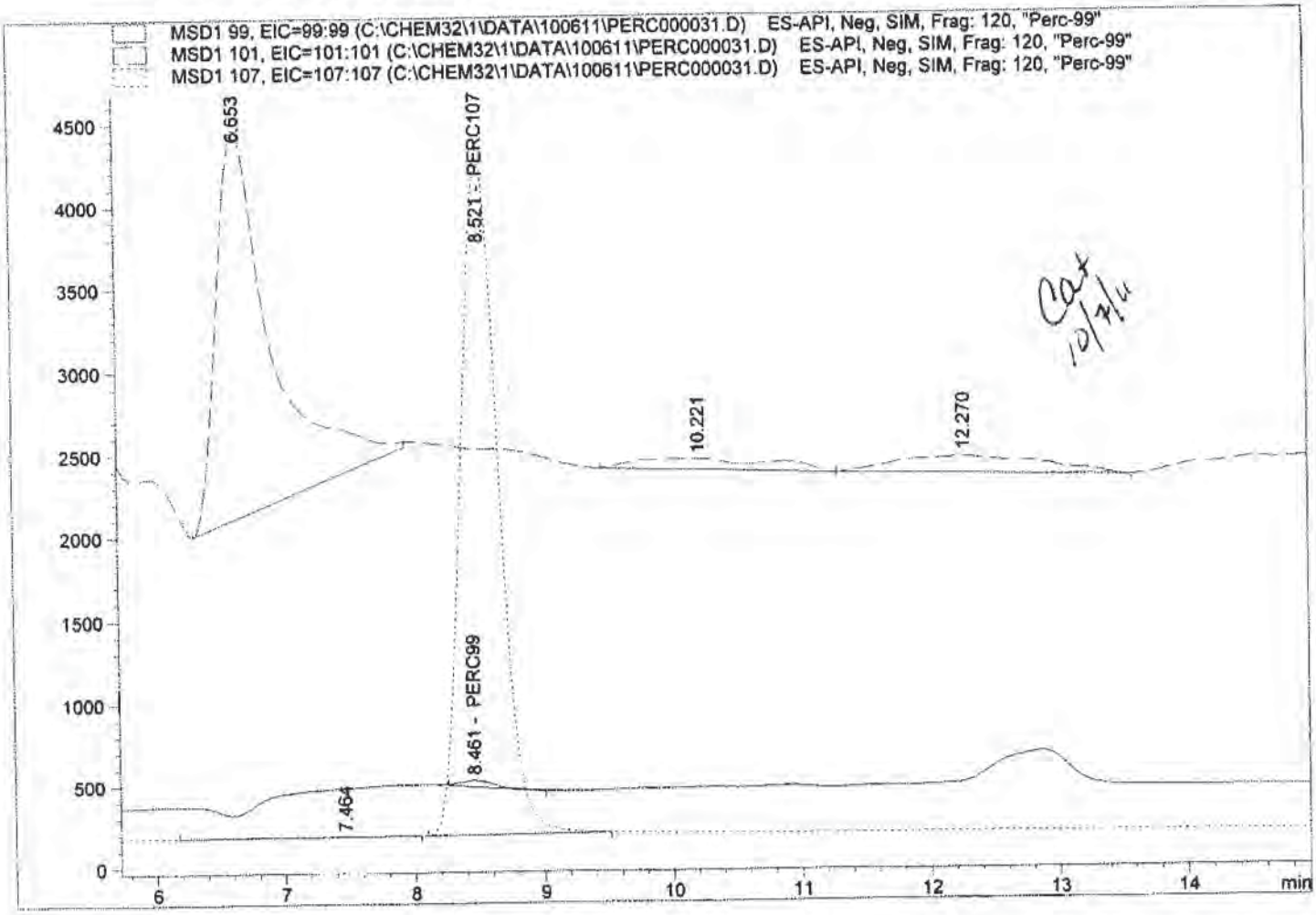
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

Acq. Operator	: CAT	Seq. Line	: 31
Acq. Instrument	: Instrument 1	Location	: Vial 23
Injection Date	: 10/6/2011 11:49:05 PM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



CAT 10/7/11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

```
==================================================================
Acq. Operator   : CAT                          Seq. Line :  31
Acq. Instrument : Instrument 1                  Location : Vial 23
Injection Date  : 10/6/2011 11:49:05 PM              Inj :   1
                                               Inj Volume : 100 µl

Acq. Method     : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed    : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed    : 10/7/2011 9:38:25 AM by RDW
                  (modified after loading)
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.461	BB	1	602.55627	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

ND

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.521	BBA I	1	8.19626e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

4 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

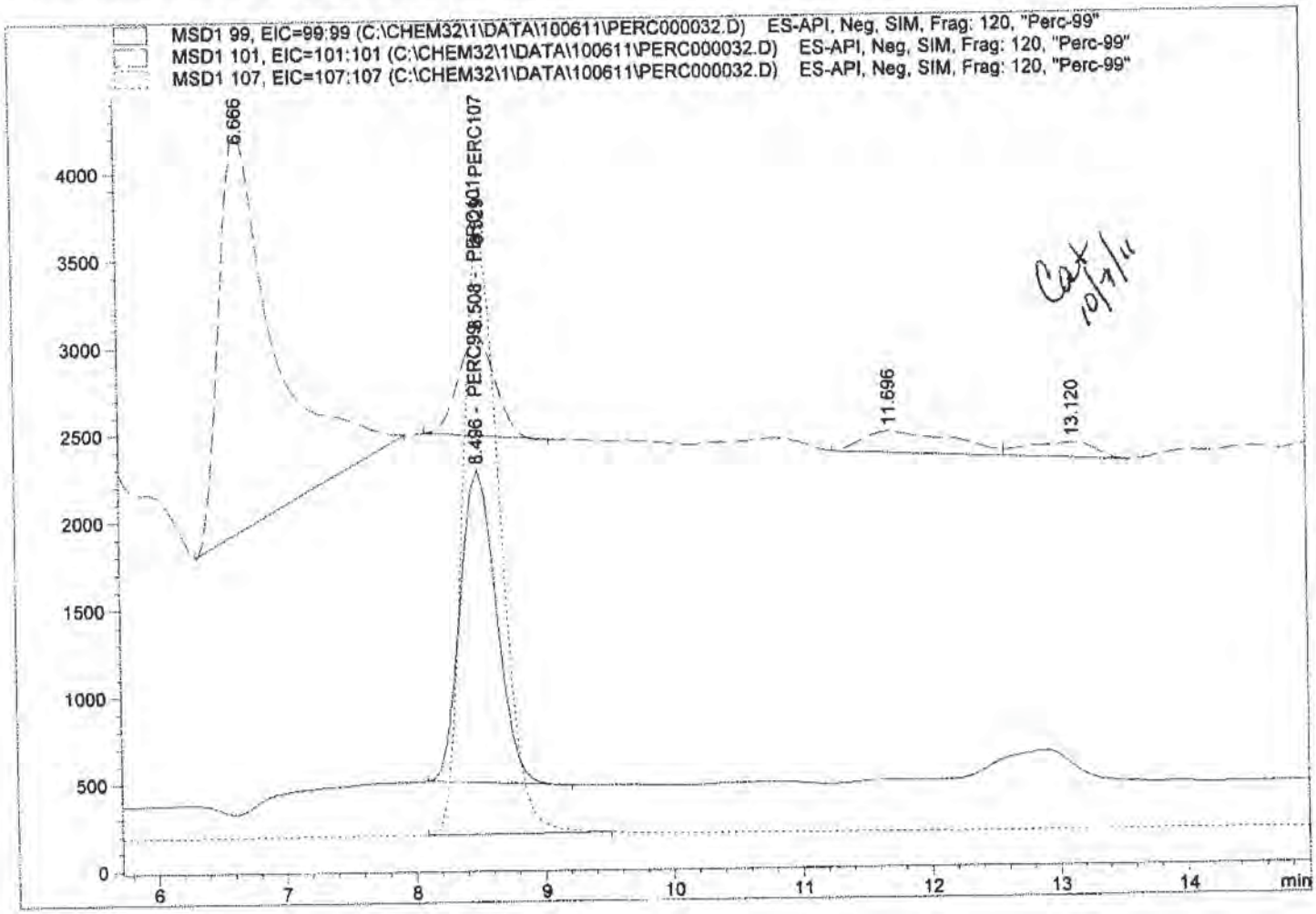
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

Acq. Operator	: CAT	Seq. Line :	32
Acq. Instrument	: Instrument 1	Location :	Vial 24
Injection Date	: 10/7/2011 12:08:00 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

==========

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 12:08:00 AM

Seq. Line : 32
Location : Vial 24
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.496	BB	1	3.49790e4	7.61378e-1	1.93925		PERC99

Totals without ISTD(s) : 1.93925

97%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BB	1	1.13197e4	2.47589	2.04076		PERC101

Totals without ISTD(s) : 2.04076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.529	BBA I	1	6.86662e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

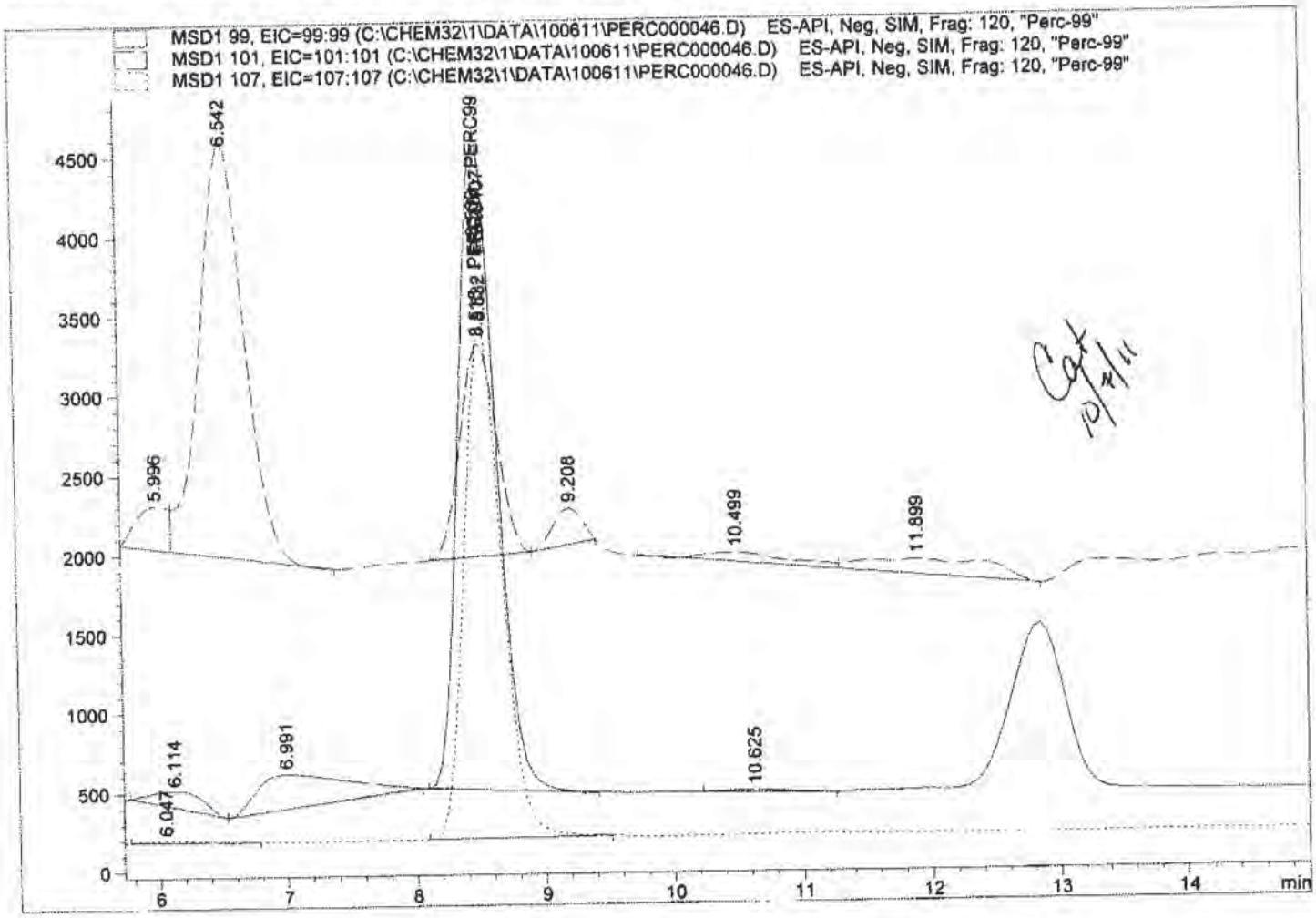
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

Acq. Operator	: CAT	Seq. Line	: 46
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/7/2011 4:30:47 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

==========

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 4:30:47 AM

Seq. Line : 46
Location : Vial 3
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BBA	1	8.21624e4	7.99302e-1	5.07300		PERC99

Totals without ISTD(s) : 5.07300

10090

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.515	BV	1	2.60930e4	2.49260	5.02409		PERC101

Totals without ISTD(s) : 5.02409

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.47275e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

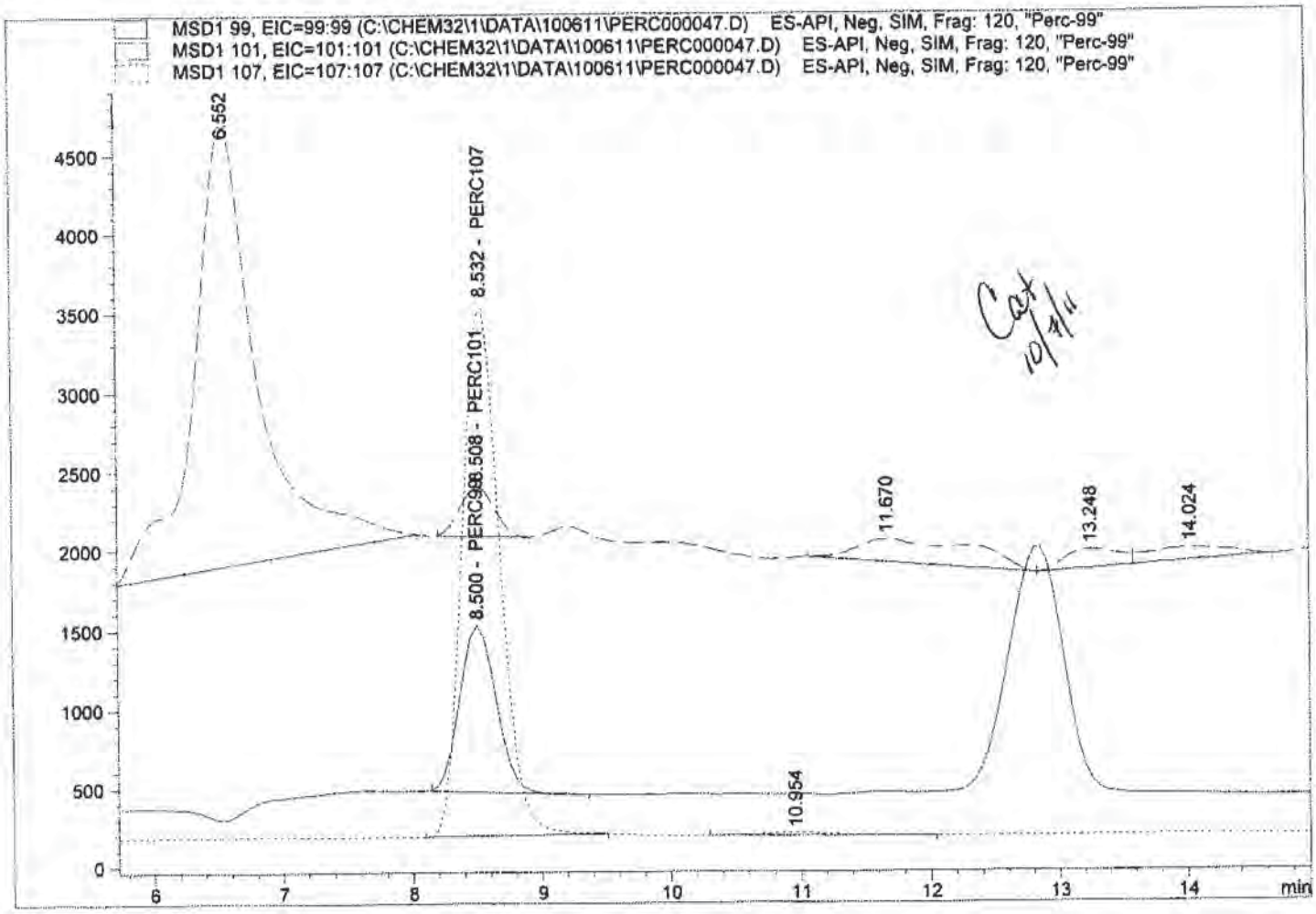
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

Acq. Operator	: CAT	Seq. Line :	47
Acq. Instrument	: Instrument 1	Location :	Vial 4
Injection Date	: 10/7/2011 4:49:33 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

==========

Acq. Operator : CAT
Seq. Line : 47
Acq. Instrument : Instrument 1
Location : Vial 4
Injection Date : 10/7/2011 4:49:33 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BB	1	2.07056e4	7.19491e-1	1.10312		PERC99

Totals without ISTD(s) : 1.10312

110070

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BV	1	5891.10547	2.45074	1.06906		PERC101

Totals without ISTD(s) : 1.06906

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.75246e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

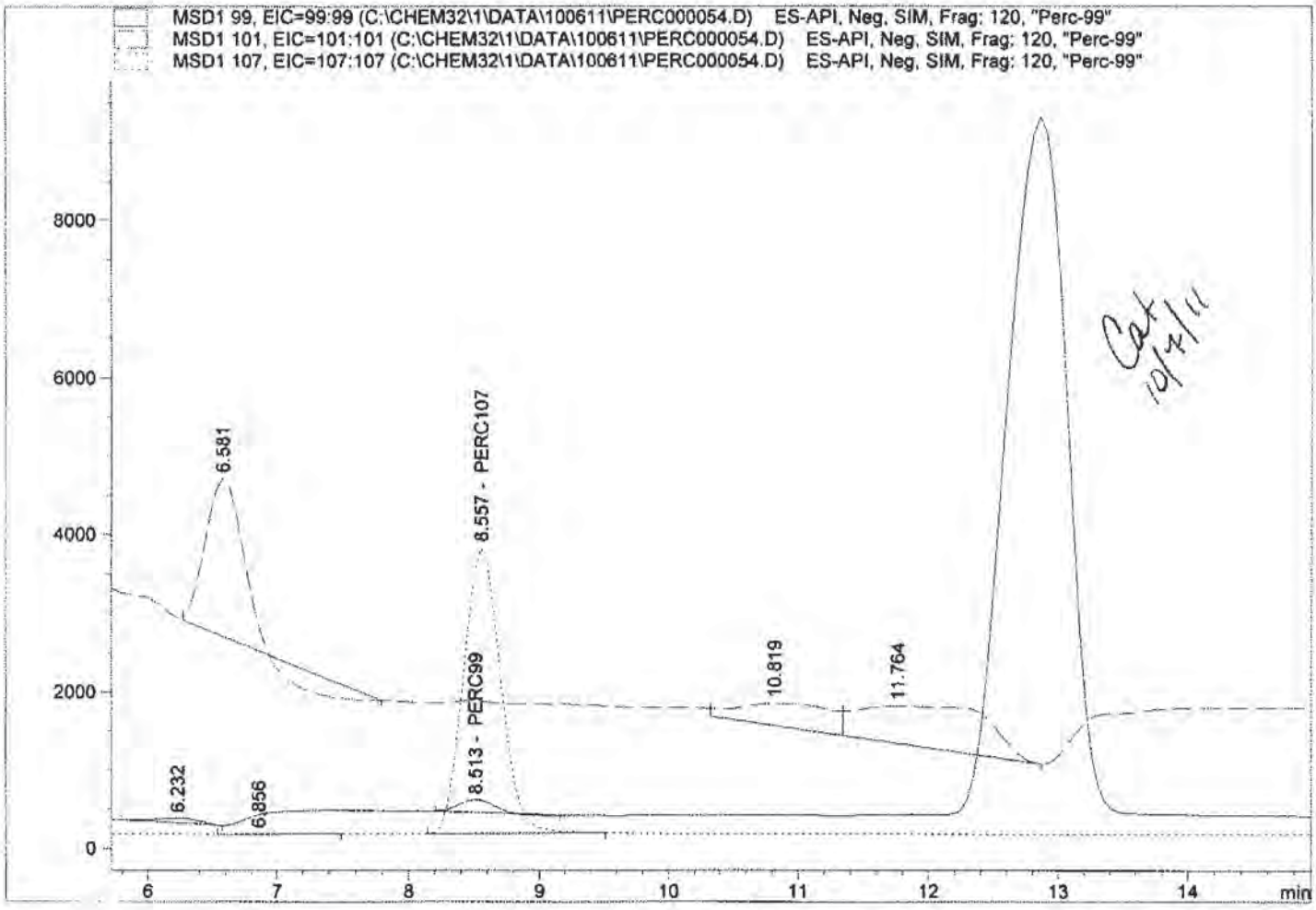
*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

==========

Acq. Operator : CAT
Seq. Line : 54
Acq. Instrument : Instrument 1
Location : Vial 43
Injection Date : 10/7/2011 7:01:00 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========



==========

Internal Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

==========

Acq. Operator : CAT
Seq. Line : 54
Acq. Instrument : Instrument 1
Location : Vial 43
Injection Date : 10/7/2011 7:01:00 AM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.513	BB	1	2916.82471	2.88025e-2	5.83854e-3		PERC99

Totals without ISTD(s) : 5.83854e-3

ND
No confirmation

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.19460e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

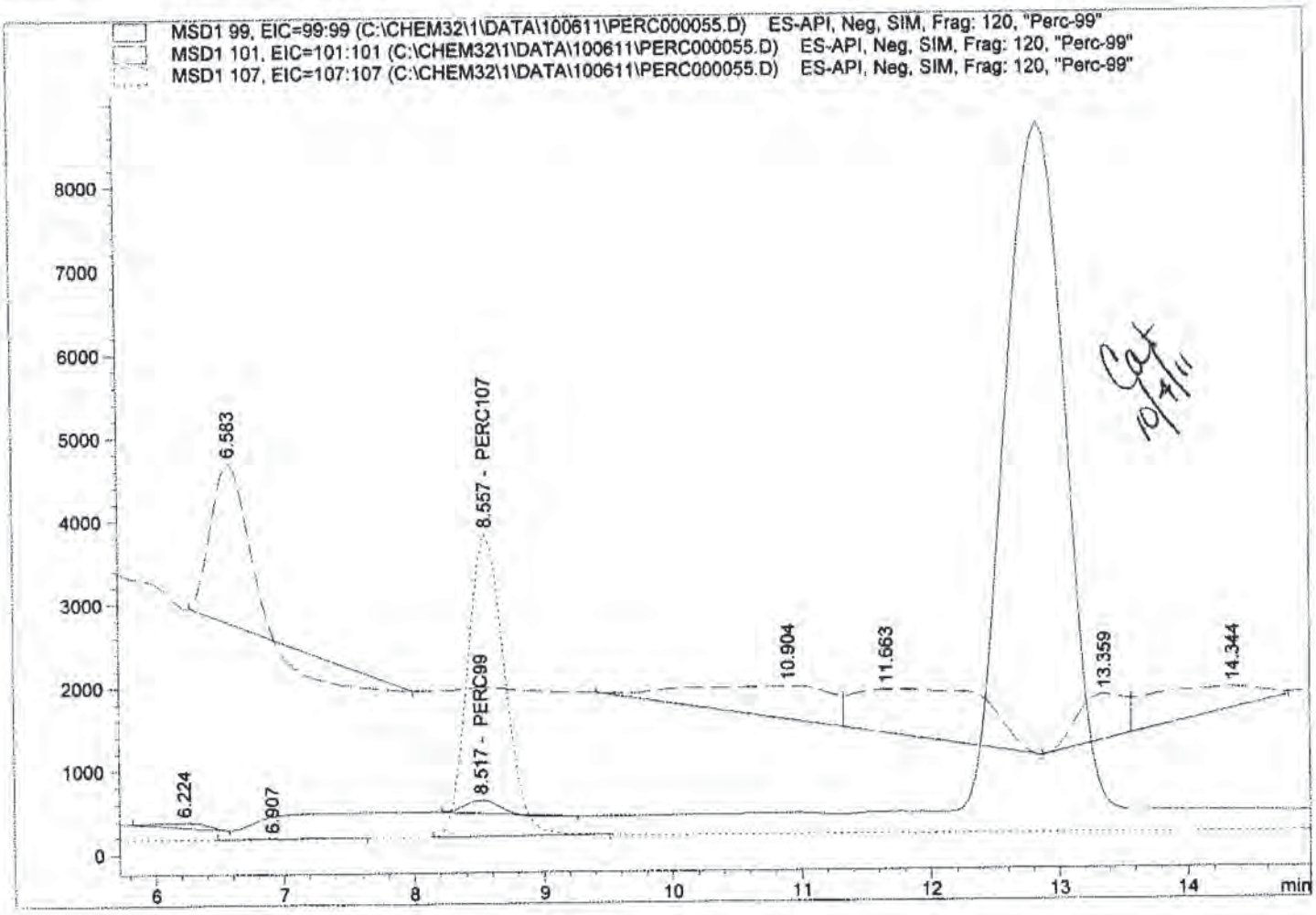
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

Acq. Operator	: CAT	Seq. Line	: 55
Acq. Instrument	: Instrument 1	Location	: Vial 44
Injection Date	: 10/7/2011 7:19:54 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

==========

Acq. Operator : CAT
Seq. Line : 55
Acq. Instrument : Instrument 1
Location : Vial 44
Injection Date : 10/7/2011 7:19:54 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

==========

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.517	BB	1	2730.33813	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.17396e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

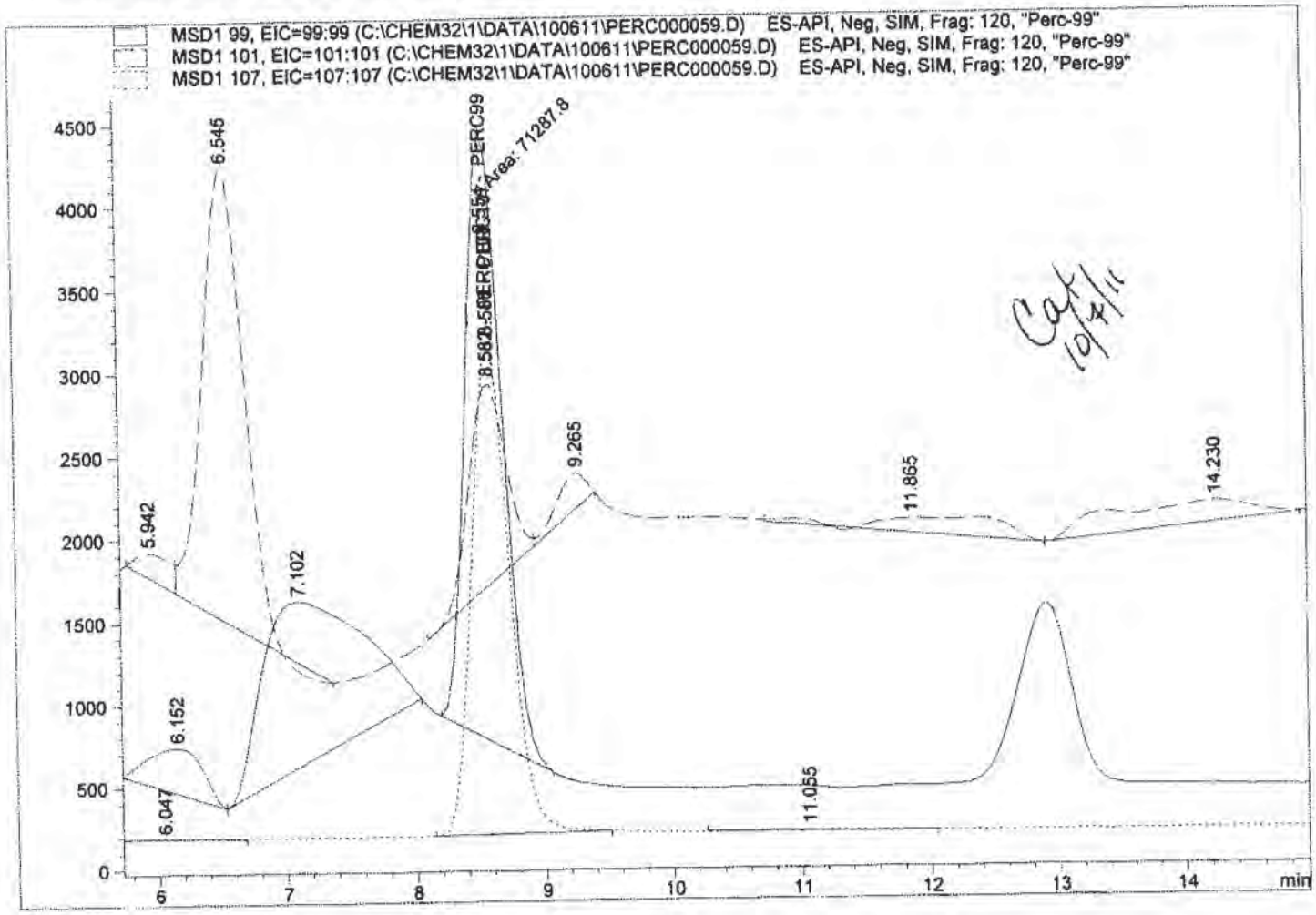
==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator	: CAT	Seq. Line :	59
Acq. Instrument	: Instrument 1	Location :	Vial 3
Injection Date	: 10/7/2011 8:34:59 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Cat 10/4/11

Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator	: CAT	Seq. Line :	59
Acq. Instrument	: Instrument 1	Location :	Vial 3
Injection Date	: 10/7/2011 8:34:59 AM	Inj :	1
		Inj Volume :	100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.554	MM	1	7.12878e4	7.97592e-1	4.74319		PERC99

Totals without ISTD(s) : 4.74319

94.9%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.582	BV	1	2.41670e4	2.49260	5.02516		PERC101

Totals without ISTD(s) : 5.02516

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.588	BBA I	1	5.99371e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

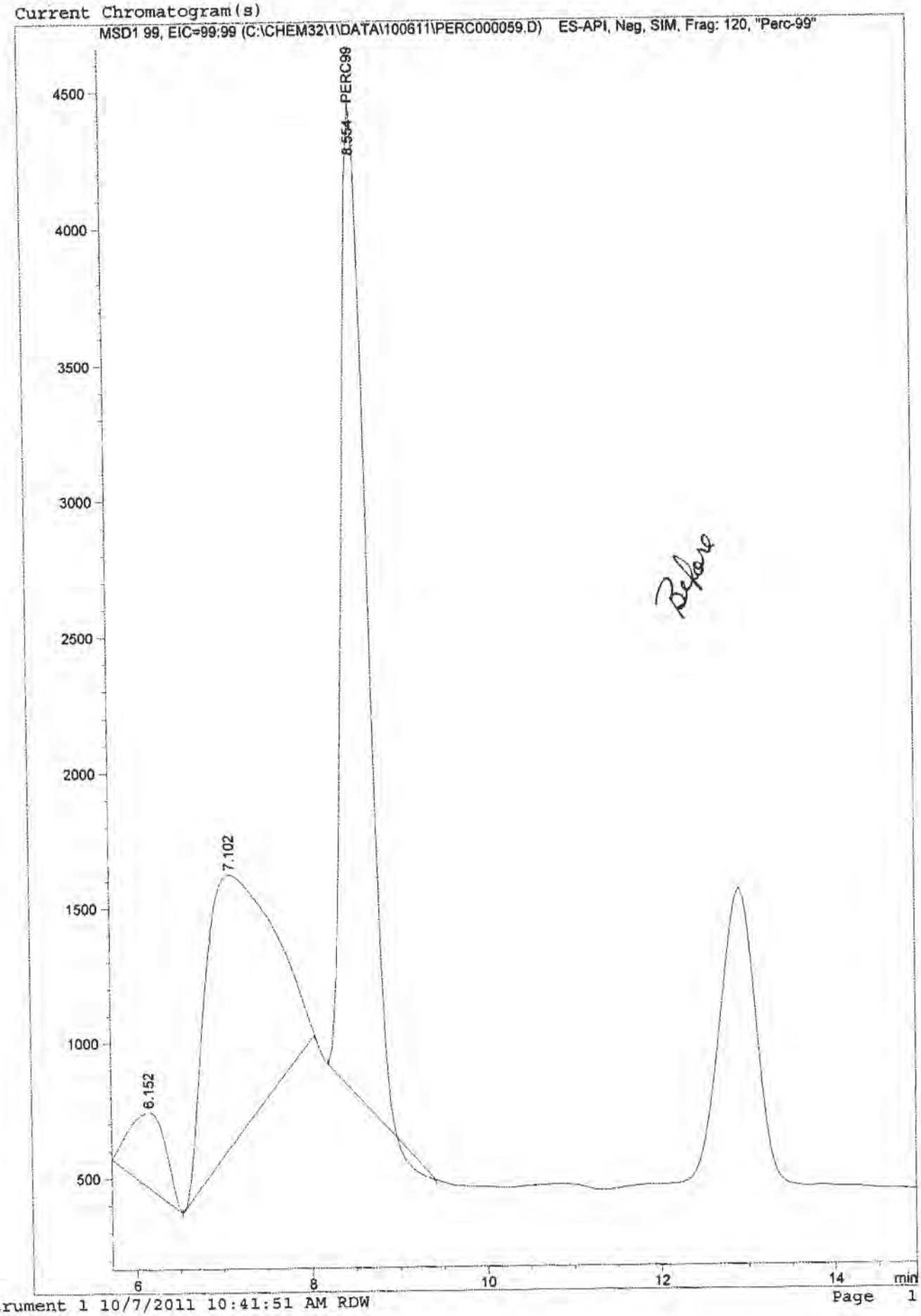
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



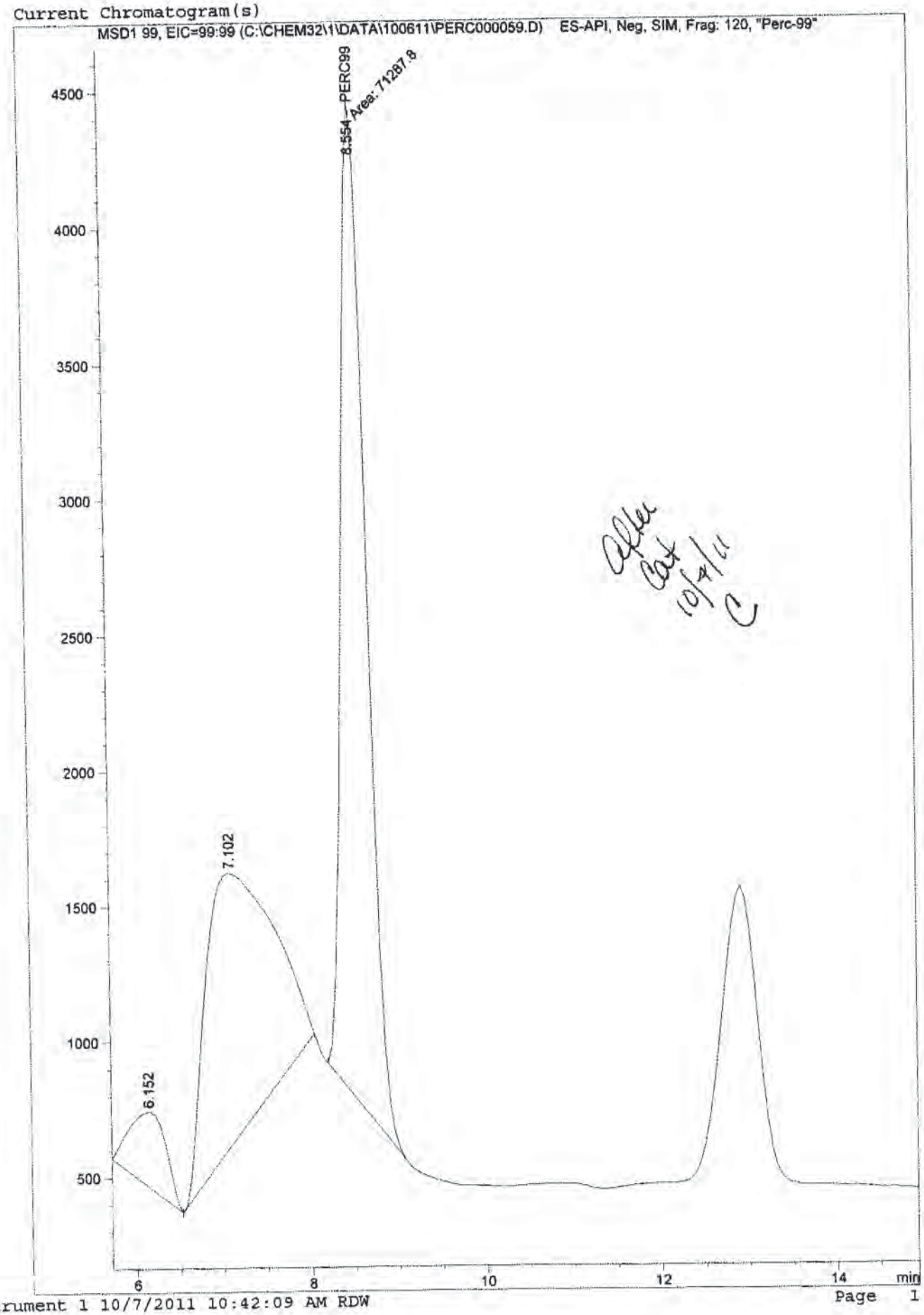
Instrument 1 10/7/2011 10:41:51 AM RDW

Page 1 of 1

1110004

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



Instrument 1 10/7/2011 10:42:09 AM RDW

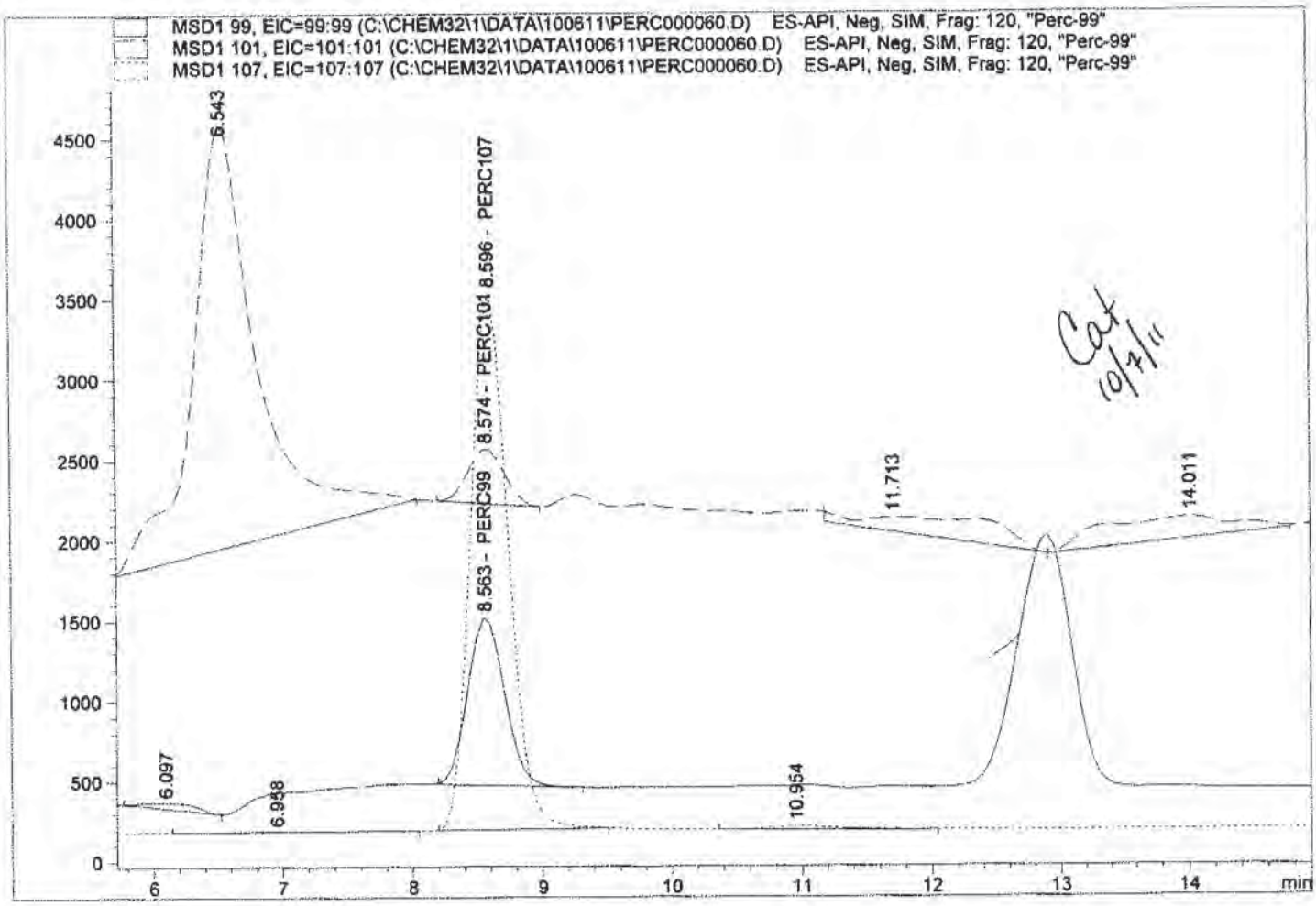
Page 1 of 1

1110004

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

Acq. Operator	: CAT	Seq. Line	: 60
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/7/2011 8:53:36 AM	Inj	: 1
		Inj Volume	: 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

```
==================================================================
Acq. Operator    : CAT                          Seq. Line :  60
Acq. Instrument  : Instrument 1                  Location : Vial 4
Injection Date   : 10/7/2011 8:53:36 AM               Inj :   1
                                               Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed     : 10/7/2011 9:38:25 AM by RDW
                   (modified after loading)
==================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.563	BB	1	2.06219e4	7.20448e-1	1.11472		PERC99

Totals without ISTD(s) : 1.11472

11/07/0

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.574	BV	1	6635.93799	2.45736	1.22350		PERC101

Totals without ISTD(s) : 1.22350

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.596	BBA I	1	6.66402e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water

Prepared using: GCLC - LCMS_PREP6850_W

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109176-02	-	LCMS_PERC_6850	10/05/2011	0.5	10					NA	
1109176-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-02	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-04	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-05	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109193-06	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-07	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-08	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-09	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-10	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-11	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109194-01	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-03	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1110002-01	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1110004-01	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	
1110004-02	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	FIELD FILTERED
1110010-01	-	LCMS_PERC_6850	10/05/2011	0.025	10					NA	
1110010-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1J05023-BLK1		QC	10/05/2011	10	10					NA	
1J05023-BS1		QC	10/05/2011	10	10	1I0443		200		NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1110004

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water

Prepared using: GCLC - LCMS_PREP6850_W

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J05023-MS1		QC	10/05/2011	10	10	11I0443	1109176-02	200		NA	
1J05023-MSD1		QC	10/05/2011	10	10	11I0443	1109176-02	200		NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

ANALYTICAL SUMMARY DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 32

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

Table of Contents

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5	Data for SW6850 Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	13

Sample Delivery Group Case Narrative

Receipt Information

The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision

This is an original submittal of the final report package.

Analytical Information

All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:

The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:

No anomalies or deviations are noted.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

***:** An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

1110004

Lab ID #	Sample ID	Collection Date	Time	Sampled By	Matrix	Total # of Bottles	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	SLCMS8850PRCHLT 6850 Perchlorate (Total)	(Dissolved)	LAB USE ONLY
1X	-01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	9/30 10.1.11	4 Reynald Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

1110004 Summ Package

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 Degrees Celsius + correction factor 1.6 = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C
Custody Seals Yes Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.307662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004	
Client:	Accutest Laboratories	Project:	Accutest	
Calibration:	1242005	Instrument:	LCMS1	
Matrix:	Water	Calibration Dates:	8/27/11 14:45	8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV3

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV4

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV5

Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence: 1J28004	Calibration:	1242005	Instrument: LCMS1

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX 407-425-0707
www.accutest.com

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	SLCMS6850PRCHLT 6850 Perchlorate	(Total)	(Dissolved)	LAB USE ONLY
1X	1110004 -01 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X		
1XF	02 MA02 MW001D	09/28/11	10:28		GW	1		X								X		X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By/Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 0930	4 Reynaldo Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6* = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Data Validation Report

Melrose AFB Semi-annual

Trinity Analysis & Development Corp

SDG: 211050426 Date: July 22, 2011

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: July 22, 2011

Sample Delivery Group: 211050426

Project Name: Melrose AFB Semi-Annual

Data validation personnel: Dana Hebert and Mike Stewart

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Dana Hebert Date: July 22, 2011

INTRODUCTION:

SDG: 211050426
Project Name: Melrose AFB Semi-Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received one data package containing the results for fourteen field samples, two field duplicates and one equipment blank. Level 3 Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review* and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MWL6	21105190401	05/18/2011 14:30	[1-12]
MWQ-2	21105042611	05/05/2011 9:26	[1-12]
MWQ-3	21105042601	05/03/2011 9:15	[1-12]
MWQ-4	21105042602	05/03/2011 10:18	[1-12]
MWQ-5	21105042603	05/03/2011 11:57	[1-12]
MWQ-5-DUP	21105042604	05/03/2011 11:57	[1-12]
MWQ-6	21105042605	05/03/2011 13:12	[1-12]
MWQ-7	21105042606	05/03/2011 13:53	[1-12]
MWQ-10	21105042607	05/03/2011 15:23	[1-12]
MWQ-14	21105042616	05/13/2011 12:31	[1-12]
MWQ-18	21105042615	05/12/2011 12:40	[1-12]
MWQ-19	21105042614	05/12/2011 9:50	[1-12]
MWQ-20	21105042620	05/17/2011 13:22	[1-12]
MWQ-20-DUP	21105042621	05/17/2011 13:22	[1-12]
MWQ-21	21105042613	05/11/2011 13:05	[1-12]
MWQ-22	21105042612	05/11/2011 11:01	[1-12]
EB2	21105042622	05/18/2011 10:30	[1-12]

Analyses Performed Codes:

[1] TAL Metals (total) – SW-846 6010C
[2] Mercury (total) – SW-846 7470A
[3] TAL Metals (Dissolved) – SW-846 6010C
[4] Mercury (Dissolved) – SW-846 7470A
[5] Sulfate and Chloride – EPA 300.0
[6] Nitrate – EPA 353.2
[7] Nitrite – EPA 353.2
[8] Total Cyanide – SW-846 9012A

[9] Total Alkalinity – SM 2320B
[10] Total Dissolved Solids – SM 2540C
[11] Hexavalent Chromium – SW-846 7196A
[10] TAL Metals (total) – SW-846 6010C
[12] Perchlorate – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

A resubmission was requested for missing blank data. The laboratory provided the data on 07/12/2011.

Due to database structure and reporting constraints, eDATApro created secondary lab sample IDs for the dissolved metals analyses and results. A “D” was appended to the lab sample IDs for these analyses.

The RPD values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method EPA 300.0 – Sulfate and Chloride

The matrix spike/matrix spike duplicate for analytical batch 456395 was analyzed on sample MWQ-18 rather than MWQ14 as requested on the chain-of-custody (COC).

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

III. Method EPA 353.2 – Nitrate and Nitrite

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IV. Method SW-846 9012B – Total Cyanide

Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated “UJ”.

V. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VI. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VII. Method SW-846 6860 – Perchlorate

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The use of alternate volumes in the preparation of several samples was required due to the high conductivity of the samples. Reporting limits were adjusted accordingly.

Recovery in the matrix spike duplicate fortification of sample MWQ-14 exceeded upper acceptance criteria. The matrix spike and associated LCS recoveries were acceptable; therefore, no qualification was made based on this non-conformance. The laboratory qualified these results with a "N". This qualifier was removed during the validation review.

VIII. Method SW-846 7196A – Hexavalent Chromium (total)

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

Sample MWQ-3 was received at the laboratory after expiration of the 24-hour holding time. Samples MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, MWQ-7 and MWQ-19 were received within the hold-time, but were not processed through receiving prior to expiration of the holding time. All samples analyzed outside the 24-hour hold-time were non-detect and therefore qualified as estimated "UJ".

IX. Method SW-846 6010C – TAL metals (total)

Recovery of Zinc in the low-level check standard (CRDL) associated with sample MWL6 exceeded lower acceptance criteria. The sample was reanalyzed with a similar low CRDL. The sample result for zinc was more than 2X the reporting limit; therefore, no qualification was necessary.

Measurable quantities of Arsenic, Cadmium and Manganese were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Antimony and Lead were observed at a concentration less than the laboratory reporting limit (RL) in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Cadmium was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Arsenic, Cadmium, Copper and Manganese were observed at a concentration less than the laboratory reporting limit (RL) in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

X. Method SW-846 6010C – TAL metals (dissolved)

Please note that the results for some analytes in several samples were reported with higher concentrations from the "dissolved" analyses than from the "total" analyses. No result qualifications were applicable.

Measurable quantities of Arsenic and Cadmium were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Antimony and Lead were observed at a concentration less than the laboratory reporting limit (RL) in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Cadmium was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of Cadmium, Copper, Manganese, Nickel and Zinc were observed at a concentration less than the laboratory reporting limit (RL) in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

The % difference reported for the serial dilution of sample MWL6 was greater than 10% for Manganese. The result in the parent sample was qualified as estimated "J",

XI. Method SW-846 7470A – Mercury (total)

Recovery in the matrix spike duplicate fortification of sample MWQ-14 exceeded lower acceptance criteria. The matrix spike and associated LCS recoveries were acceptable; therefore, no qualification was made based on this non-conformance.

XII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Antimony	MWQ-3	5.7	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-4	5.07	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-5	4.74	B	60	U	Blank contamination.
Antimony (Dissolved)	MWQ-7	5.98	B	60	U	Blank contamination.
Arsenic	MWL6	5.89	B	10	U	Blank contamination.
Arsenic	MWQ-10	8.34	B	10	U	Blank contamination.
Arsenic	MWQ-18	6.33	B	10	U	Blank contamination.
Arsenic	MWQ-21	6.1	B	10	U	Blank contamination.
Arsenic	MWQ-5	9.27	B	10	U	Blank contamination.
Arsenic	MWQ-5-DUP	7.82	B	10	U	Blank contamination.
Arsenic	MWQ-7	3.8	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-10	7.83	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-5	7.43	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-5-DUP	8.16	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-6	7.16	B	10	U	Blank contamination.
Arsenic (Dissolved)	MWQ-7	8.35	B	10	U	Blank contamination.
Cadmium	MWQ-10	0.73	B	5	U	Blank contamination.
Cadmium	MWQ-18	0.65	B	5	U	Blank contamination.
Cadmium	MWQ-19	1.11	B	5	U	Blank contamination.
Cadmium	MWQ-20	1.93	B	5	U	Blank contamination.
Cadmium	MWQ-20-DUP	1.93	B	5	U	Blank contamination.
Cadmium	MWQ-21	0.51	B	5	U	Blank contamination.
Cadmium	MWQ-3	0.44	B	5	U	Blank contamination.
Cadmium	MWQ-4	0.36	B	5	U	Blank contamination.
Cadmium	MWQ-5	0.76	B	5	U	Blank contamination.
Cadmium	MWQ-5-DUP	0.78	B	5	U	Blank contamination.
Cadmium	MWQ-6	0.72	B	5	U	Blank contamination.
Cadmium	MWQ-7	0.87	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-10	0.86	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-18	1.01	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-19	1.27	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-2	0.49	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-20	2.01	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-20-DUP	2.08	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-21	0.69	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-3	0.83	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-4	0.94	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-5	1.1	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-5-DUP	0.96	B	5	U	Blank contamination.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Cadmium (Dissolved)	MWQ-6	0.96	B	5	U	Blank contamination.
Cadmium (Dissolved)	MWQ-7	1.35	B	5	U	Blank contamination.
Copper	MWQ-22	7.72	B	10	U	Blank contamination.
Copper	MWQ-5	9.64	B	10	U	Blank contamination.
Copper	MWQ-6	7.09	B	10	U	Blank contamination.
Copper	MWQ-7	8.93	B	10	U	Blank contamination.
Copper (Dissolved)	MWL6	9.01	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-22	6.97	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-4	9.83	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-5	8.59	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-5-DUP	8.54	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-6	7.23	B	10	U	Blank contamination.
Copper (Dissolved)	MWQ-7	8.81	B	10	U	Blank contamination.
Lead	MWQ-10	1.54	B	15	U	Blank contamination.
Lead	MWQ-4	2.79	B	15	U	Blank contamination.
Lead	MWQ-5-DUP	4.06	B	15	U	Blank contamination.
Lead	MWQ-7	4.79	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-10	2.43	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-3	6.4	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-4	2.61	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-5-DUP	5.28	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-6	2.42	B	15	U	Blank contamination.
Lead (Dissolved)	MWQ-7	3.4	B	15	U	Blank contamination.
Manganese	MWQ-14	13.8	B	15	U	Blank contamination.
Manganese	MWQ-18	5.27	B	15	U	Blank contamination.
Manganese	MWQ-5-DUP	2.01	B	15	U	Blank contamination.
Manganese (Dissolved)	MWL6	158		158	J	Serial dilution >10%.
Manganese (Dissolved)	MWQ-18	9.28	B	15	U	Blank contamination.
Nickel (Dissolved)	MWQ-2	1.89	B	40	U	Blank contamination.
Zinc (Dissolved)	MWL6	4.65	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-10	4.86	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-4	7.38	B	20	U	Blank contamination.
Zinc (Dissolved)	MWQ-6	5.61	B	20	U	Blank contamination.
Chromium VI	MWQ-19	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-3	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-4	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-5	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-5-DUP	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-6	2.8	U	2.8	UJ	Hold-time exceedence.
Chromium VI	MWQ-7	2.8	U	2.8	UJ	Hold-time exceedence.
Total Cyanide	MWL6	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-10	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-14	0.0006	U	0.0006	UJ	MS/MSD recoveries low.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Total Cyanide	MWQ-18	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-19	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-2	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-20	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-20-DUP	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-21	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-22	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-3	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-4	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-5	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-5-DUP	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-6	0.0006	U	0.0006	UJ	MS/MSD recoveries low.
Total Cyanide	MWQ-7	0.0006	U	0.0006	UJ	MS/MSD recoveries low.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:40 PM**	1	60	5.7	B	60	U	ug/L	*
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**13.5**		**13.5**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.44	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**30200**		**30200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**10.4**		**10.4**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**33100**		**33100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	50	**3.84**	**B**	**3.84**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	1000	**81700**		**81700**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	20	**104**		**104**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:11 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro
ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**27.2**		**27.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**29600**		**29600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**10.8**		**10.8**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	6.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**32300**		**32300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	50	**4.54**	**B**	**4.54**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	1000	**80300**		**80300**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	20	**100**		**100**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:46 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:46 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11**		**11**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**50.4**		**50.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.36	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11.8**		**11.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**19400**		**19400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:46 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	1000	**55900**		**55900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:46 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**79.8**		**79.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**7.24**	**B**	**7.24**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:14 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	60	5.07	B	60	U	ug/L	*
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**46.2**		**46.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.94	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	9.83	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2.61	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**19200**		**19200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	1000	**56400**		**56400**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	20	**78.8**		**78.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	7.38	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:52 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.27	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.76	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**42500**		**42500**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.64	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**23100**		**23100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:52 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	1000	**65200**		**65200**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**84.3**		**84.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:18 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	60	4.74	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	7.43	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	10	**30.3**		**30.3**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	1.1	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	8.59	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**21600**		**21600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	500	**3240**		**3240**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	1000	**63600**		**63600**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	20	**80.8**		**80.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:58 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:58 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	7.82	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**34.5**		**34.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.78	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**41600**		**41600**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	4.06	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**22000**		**22000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	2.01	B	15	U	ug/L	*
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:58 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	500	**3130**		**3130**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	1000	**64000**		**64000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:58 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**81.5**		**81.5**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**2.77**	**B**	**2.77**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:21 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**42000**		**42000**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.54	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	5.28	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**22300**		**22300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	500	**3180**		**3180**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	1000	**64800**		**64800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	20	**83.7**		**83.7**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**10.2**		**10.2**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**38.5**		**38.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.72	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	7.09	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**19700**		**19700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:05 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	500	**2120**		**2120**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**77.7**		**77.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:24 AM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	10	**34.6**		**34.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**40600**		**40600**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.23	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2.42	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**19300**		**19300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	500	**2610**		**2610**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	20	**78.4**		**78.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	5.61	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:11 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:11 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	3.8	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	10	**33.7**		**33.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.87	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	8.93	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	4.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**24500**		**24500**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:11 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	500	**2690**		**2690**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	1000	**72000**		**72000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	20	**76.8**		**76.8**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:30 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	60	5.98	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.35	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**29.5**		**29.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	1.35	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**57200**		**57200**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.81	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	3.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**24600**		**24600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	500	**2650**		**2650**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	40	**6.12**	**B**	**6.12**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	1000	**72700**		**72700**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	20	**74.4**		**74.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 1:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 1:48 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	8.34	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**124**		**124**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.73	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**53600**		**53600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**12.3**		**12.3**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	1.54	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**40400**		**40400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	50	**3.77**	**B**	**3.77**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	500	**5950**		**5950**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	1000	**21100**		**21100**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 1:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**68.8**		**68.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**3.3**	**B**	**3.3**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 10:55 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	7.83	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**123**		**123**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.86	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**54300**		**54300**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**1.07**	**B**	**1.07**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**12.2**		**12.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2.43	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**40500**		**40500**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	50	**4.87**	**B**	**4.87**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	500	**6090**		**6090**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	1000	**21500**		**21500**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	20	**69.8**		**69.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	4.86	B	20	U	ug/L	*
7439-97-6	**Mercury (Dissolved)**	**SW-846 7470A**		**1**	0.2	**0.0921**	**B**	**0.0921**	**B**	**ug/L**	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 8:52 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:52 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 4:05 PM**	**1**	10	**34.3**		**34.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**187000**		**187000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**2.53**	**B**	**2.53**	**B**	**ug/L**
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**23.9**		**23.9**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**52.8**	**B**	**52.8**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:52 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**124000**		**124000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	15	**82.9**		**82.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	50	**20.6**	**B**	**20.6**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	40	**1.6**	**B**	**1.6**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	500	**11600**		**11600**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:52 PM**	1	40	4.34	U	4.34	U	ug/L
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:17 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:52 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:52 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**73.5**		**73.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**394**		**394**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/16/2011 1:49 PM**	1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**3**	**B**	**3**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**28.2**		**28.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.49	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**204000**		**204000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**2.25**	**B**	**2.25**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**22.2**		**22.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**135000**		**135000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	15	**50.1**		**50.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	50	**22.6**	**B**	**22.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	1.89	B	40	U	ug/L	*
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	500	**12600**		**12600**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:29 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**71.6**		**71.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**426**		**426**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 4:23 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:23 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:22 PM**	**1**	10	**40.8**		**40.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**37300**		**37300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	7.72	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**147**		**147**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:23 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**16200**		**16200**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	15	**426**		**426**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	50	**11.1**	**B**	**11.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	1000	**315000**		**315000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:23 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:23 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**29.4**		**29.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**7.64**	**B**	**7.64**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	10	**37.6**		**37.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**38500**		**38500**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	6.97	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**142**		**142**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**17400**		**17400**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	15	**440**		**440**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	50	**12**	**B**	**12**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	500	**3340**		**3340**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	40	**5**	**B**	**5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	1000	**319000**		**319000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	20	**32.2**		**32.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	200	**1100**		**1100**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:30 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	6.1	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:30 PM**	**1**	10	**48.9**		**48.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.51	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**122000**		**122000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**4.41**	**B**	**4.41**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**15**		**15**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**669**		**669**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:30 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	15	**19.9**		**19.9**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	50	**9.63**	**B**	**9.63**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**1.27**	**B**	**1.27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**11**	**B**	**11**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	1000	**184000**		**184000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**99.7**		**99.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**15.6**	**B**	**15.6**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:43 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	200	**272**		**272**		**ug/L**	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**9.41**	**B**	**9.41**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**32.6**		**32.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**120000**		**120000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**1.95**	**B**	**1.95**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**127**		**127**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**57700**		**57700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	50	**9.72**	**B**	**9.72**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	500	**9970**		**9970**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	40	**9.9**	**B**	**9.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	1000	**181000**		**181000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**5.29**	**B**	**5.29**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	20	**98.8**		**98.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	200	**72.4**	**B**	**72.4**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:37 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:37 PM**	**1**	10	**26**		**26**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	1.11	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**286000**		**286000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**20.1**		**20.1**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**2820**		**2820**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:37 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	15	**436**		**436**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/24/2011 4:37 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:14 AM**	**5**	5000	**1100000**		**1100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:37 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:37 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**64.3**		**64.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**865**		**865**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:49 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**3.75**	**B**	**3.75**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	1.27	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**285000**		**285000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**18**		**18**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**2590**		**2590**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	15	**432**		**432**		**ug/L**	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:48 PM**	**5**	5000	**1110000**		**1110000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**64.6**		**64.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**615**		**615**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	200	**153**	**B**	**153**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:44 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	6.33	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:34 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.65	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**41200**		**41200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**814**		**814**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**168**		**168**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	15	**1.79**	**B**	**1.79**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**18700**		**18700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 4:44 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	40	**6.94**	**B**	**6.94**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	500	**2770**		**2770**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:44 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	1000	**65500**		**65500**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:44 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:44 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**78.6**		**78.6**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**52.4**		**52.4**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**7.34**	**B**	**7.34**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**33.8**		**33.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	1.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**44400**		**44400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**554**		**554**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**20200**		**20200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	9.28	B	15	U	ug/L	*
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	50	**11.6**	**B**	**11.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	500	**2870**		**2870**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	1000	**68800**		**68800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**79.9**		**79.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**38.2**		**38.2**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	200	**60.6**	**B**	**60.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 3:20 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:13 PM**	**1**	10	**15.3**		**15.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**65900**		**65900**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**16.1**		**16.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**61800**		**61800**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	13.8	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	50	**25.4**	**B**	**25.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**1.18**	**B**	**1.18**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	500	**11400**		**11400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**26.3**	**B**	**26.3**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 11:38 PM**	**5**	5000	**628000**		**628000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	20	**59**		**59**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:24 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616D**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**3.99**	**B**	**3.99**	**B**	**ug/L**
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**11.9**		**11.9**		**ug/L**
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**66700**		**66700**		**ug/L**
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**14.5**		**14.5**		**ug/L**
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**62400**		**62400**		**ug/L**
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	50	**26**	**B**	**26**	**B**	**ug/L**
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	500	**11400**		**11400**		**ug/L**
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	40	**23.3**	**B**	**23.3**	**B**	**ug/L**
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:13 PM**	**5**	5000	**633000**		**633000**		**ug/L**
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	20	**58.1**		**58.1**		**ug/L**
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	2.72	U	2.72	U	ug/L
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
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U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	200	**261**		**261**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	60	**20.3**	**B**	**20.3**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:43 PM**	**1**	10	**26.3**		**26.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**556000**		**556000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**23.2**		**23.2**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**241**		**241**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:51 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**311000**		**311000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	15	**967**		**967**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	50	**17**	**B**	**17**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	500	**16200**		**16200**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:21 AM**	**25**	25000	**2970000**		**2970000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:51 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**64**		**64**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**2370**		**2370**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:56 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	60	**6**	**B**	**6**	**B**	**ug/L**	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.5**		**21.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	5	2.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**544000**		**544000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
7440-48-4	**Cobalt (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**1.1**	**B**	**1.1**	**B**	**ug/L**	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.3**		**21.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**71.1**	**B**	**71.1**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**306000**		**306000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	15	**934**		**934**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	500	**15700**		**15700**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:56 PM**	**25**	25000	**2780000**		**2780000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	05/24/2011 2:45 PM	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**64.1**		**64.1**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**2190**		**2190**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	200	**285**		**285**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	60	**4.8**	**B**	**4.8**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:50 PM**	**1**	10	**27.4**		**27.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**574000**		**574000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**271**		**271**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**321000**		**321000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	15	**994**		**994**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	50	**17.3**	**B**	**17.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:28 AM**	**25**	25000	**3050000**		**3050000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**1.73**	**B**	**1.73**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**63.4**		**63.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**2410**		**2410**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:59 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	60	**4.33**	**B**	**4.33**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	2.08	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**554000**		**554000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**19.9**		**19.9**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**66.2**	**B**	**66.2**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**312000**		**312000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	15	**955**		**955**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	50	**16.6**	**B**	**16.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	500	**16000**		**16000**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 11:04 PM**	**25**	25000	**2850000**		**2850000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**64.2**		**64.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**2240**		**2240**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	200	**69.7**	**B**	**69.7**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/26/2011 6:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	5.89	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**24.1**		**24.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/31/2011 3:55 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/26/2011 6:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**1.74**	**B**	**1.74**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**7450**		**7450**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**2.5**	**B**	**2.5**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**33800**		**33800**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**265**		**265**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/26/2011 6:12 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**1.09**	**B**	**1.09**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	500	**5470**		**5470**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**9.06**	**B**	**9.06**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	1000	**69600**		**69600**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/31/2011 3:55 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/26/2011 6:12 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	20	**69.9**		**69.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/31/2011 3:55 PM**	**1**	20	**93.6**		**93.6**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:13 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401D**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**20.8**		**20.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	9.01	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**566**		**566**		**ug/L**	
7439-92-1	**Lead (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**1.9**	**B**	**1.9**	**B**	**ug/L**	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**33700**		**33700**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**158**		**158**	**J**	**ug/L**	*
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	500	**5560**		**5560**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	40	**8.02**	**B**	**8.02**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	1000	**67800**		**67800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/31/2011 2:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	20	**59.3**		**59.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	20	4.65	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105190401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	5	107		107		mg/L	
Sulfate	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	10	216		216		mg/L	
Method: EPA 353.2										
Nitrate	**05/18/2011 2:30 PM**	**05/19/2011 4:20 PM**	1	0.01	0.408		0.408		mg/L-	
Nitrite	**05/18/2011 2:30 PM**	**05/19/2011 3:25 PM**	1	0.01	0.013		0.013		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/18/2011 2:30 PM**	**05/20/2011 7:23 AM**	1	1	129		129		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/18/2011 2:30 PM**	**05/19/2011 2:10 PM**	1	10	658		658		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/18/2011 2:30 PM**	**05/19/2011 10:09 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/18/2011 2:30 PM**	**05/23/2011 11:14 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-16A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/18/2011 2:30 PM**	**05/31/2011 12:17 PM**	1	0.000594	0.00994	N	0.00994		mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-2**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042611**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	100	3310		3310		mg/L	
Sulfate	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	200	1350		1350		mg/L	
Method: EPA 353.2										
Nitrate	**05/05/2011 9:26 AM**	**05/06/2011 3:28 PM**	1	0.01	0.244		0.244		mg/L-	
Nitrite	**05/05/2011 9:26 AM**	**05/06/2011 4:06 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/05/2011 9:26 AM**	**05/09/2011 11:15 AM**	1	1	83.1		83.1		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/05/2011 9:26 AM**	**05/06/2011 1:15 PM**	1	10	7120		7120		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/05/2011 9:26 AM**	**05/06/2011 9:36 AM**	1	10	3	B	3	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/05/2011 9:26 AM**	**05/13/2011 4:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-2**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-08A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/05/2011 9:26 AM**	**05/27/2011 1:54 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-3**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042601**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	5	68.3		68.3		mg/L	
Sulfate	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	10	150		150		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 9:15 AM**	**05/04/2011 2:51 PM**	1	0.01	0.738		0.738		mg/L-	
Nitrite	**05/03/2011 9:15 AM**	**05/04/2011 3:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 9:15 AM**	**05/04/2011 3:38 PM**	1	1	145		145		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 9:15 AM**	**05/04/2011 2:40 PM**	1	10	430		430		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 9:15 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 9:15 AM**	**05/06/2011 2:06 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-3**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-01A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 9:15 AM**	**05/27/2011 12:07 PM**	1	0.0003	0.00731	N	0.00731		mg/L	*

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R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-4**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042602**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	1	17.6		17.6		mg/L	
Sulfate	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	2	59		59		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 10:18 AM**	**05/04/2011 3:14 PM**	5	0.05	3.43		3.43		mg/L-	
Nitrite	**05/03/2011 10:18 AM**	**05/04/2011 3:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 10:18 AM**	**05/04/2011 3:38 PM**	1	1	177		177		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 10:18 AM**	**05/04/2011 2:40 PM**	1	10	300		300		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 10:18 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 10:18 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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J = Estimated
R = Rejected
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-4**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-02A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 10:18 AM**	**05/27/2011 12:25 PM**	1	0.0003	0.00308	N	0.00308		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042603**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	2	21.8		21.8		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	4	90.8		90.8		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:18 PM**	10	0.1	5.53		5.53		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:46 PM**	1	0.01	0.004	B	0.004	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	175		175		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	374		374		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-03A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 12:43 PM**	1	0.0003	0.003	N	0.003		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042604**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	2	21.5		21.5		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	4	91.5		91.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:19 PM**	10	0.1	5.19		5.19		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:48 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	170		170		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	380		380		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:09 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-04A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 1:00 PM**	1	0.0003	0.00306	N	0.00306		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042605**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	2	21.4		21.4		mg/L	
Sulfate	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	4	85.5		85.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:12 PM**	**05/04/2011 3:20 PM**	5	0.05	3.39		3.39		mg/L-	
Nitrite	**05/03/2011 1:12 PM**	**05/04/2011 3:49 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:12 PM**	**05/04/2011 3:38 PM**	1	1	160		160		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:12 PM**	**05/04/2011 2:40 PM**	1	10	352		352		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:12 PM**	**05/04/2011 2:15 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:12 PM**	**05/06/2011 2:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-05A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:12 PM**	**05/27/2011 1:18 PM**	1	0.0003	0.00398	N	0.00398		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-7**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042606**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	5	59.3		59.3		mg/L	
Sulfate	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	10	156		156		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:53 PM**	**05/04/2011 3:21 PM**	2	0.02	1.31		1.31		mg/L-	
Nitrite	**05/03/2011 1:53 PM**	**05/04/2011 3:50 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:53 PM**	**05/04/2011 3:38 PM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:53 PM**	**05/04/2011 2:40 PM**	1	10	480		480		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:53 PM**	**05/04/2011 2:19 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:53 PM**	**05/06/2011 2:11 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-7**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-06A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:53 PM**	**05/27/2011 1:36 PM**	1	0.0003	0.00584	N	0.00584		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042607**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	2	29.3		29.3		mg/L	
Sulfate	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	4	60.6		60.6		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 3:23 PM**	**05/04/2011 3:23 PM**	20	0.2	7.07		7.07		mg/L-	
Nitrite	**05/03/2011 3:23 PM**	**05/04/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	216		216		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	390		390		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 3:23 PM**	**05/04/2011 2:13 PM**	1	10	5	B	5	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 3:23 PM**	**05/06/2011 2:14 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-07A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 3:23 PM**	**05/26/2011 8:53 PM**	1	0.0003	0.00053	N	0.00053		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042610**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	220		220		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	388		388		mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042616**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	50	715		715		mg/L	
Sulfate	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	100	994		994		mg/L	
Method: EPA 353.2										
Nitrate	**05/13/2011 12:31 PM**	**05/14/2011 10:31 AM**	5	0.05	1.59		1.59		mg/L-	
Nitrite	**05/13/2011 12:31 PM**	**05/14/2011 10:46 AM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	133		133		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2670		2670		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/13/2011 12:31 PM**	**05/14/2011 10:40 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/13/2011 12:31 PM**	**05/23/2011 10:59 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-13A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:31 PM**	**05/31/2011 12:52 PM**	1	0.0003	0.00452	N	0.00452		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ14-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042619**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	137		137		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2590		2590		mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-18**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042615**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	5	40.3		40.3		mg/L	
Sulfate	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	10	110		110		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 12:40 PM**	**05/13/2011 12:05 PM**	1	0.01	0.372		0.372		mg/L-	
Nitrite	**05/12/2011 12:40 PM**	**05/13/2011 12:24 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 12:40 PM**	**05/16/2011 1:32 PM**	1	1	161		161		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 12:40 PM**	**05/16/2011 12:50 PM**	1	10	520		520		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 12:40 PM**	**05/13/2011 11:05 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 12:40 PM**	**05/23/2011 10:58 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-18**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-12A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:40 PM**	**05/31/2011 11:24 AM**	1	0.000594	0.0108	N	0.0108		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-19**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042614**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	100	2050		2050		mg/L	
Sulfate	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	200	1530		1530		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 9:50 AM**	**05/13/2011 12:02 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/12/2011 9:50 AM**	**05/13/2011 12:20 PM**	1	0.01	0.007	B	0.007	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 9:50 AM**	**05/16/2011 1:32 PM**	1	1	302		302		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 9:50 AM**	**05/16/2011 12:50 PM**	1	10	5500		5500		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 9:50 AM**	**05/13/2011 11:04 AM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 9:50 AM**	**05/23/2011 10:57 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-19**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-11A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/12/2011 9:05 AM**	**05/27/2011 2:47 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042620**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	200	6010		6010		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	400	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:19 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:34 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	55.7		55.7		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	11900		11900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:16 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:12 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-14A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:42 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042621**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	200	6090		6090		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	400	1480		1480		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:23 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:37 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	56.9		56.9		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	12000		12000		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:17 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:13 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-15A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:59 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-21**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042613**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	10	121		121		mg/L	
Sulfate	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	20	476		476		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 1:05 PM**	**05/12/2011 4:08 PM**	5	0.05	2.44		2.44		mg/L-	
Nitrite	**05/11/2011 1:05 PM**	**05/12/2011 4:22 PM**	1	0.01	0.008	B	0.008	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 1:05 PM**	**05/12/2011 10:43 AM**	1	1	244		244		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 1:05 PM**	**05/12/2011 3:30 PM**	1	10	900		900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 1:05 PM**	**05/12/2011 10:40 AM**	1	10	32		32		ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 1:05 PM**	**05/13/2011 4:31 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-21**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-10A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 1:05 PM**	**05/27/2011 2:29 PM**	1	0.0003	0.00827	N	0.00827		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042612**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	20	342		342		mg/L	
Sulfate	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	40	233		233		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 11:01 AM**	**05/12/2011 4:01 PM**	1	0.01	0.309		0.309		mg/L-	
Nitrite	**05/11/2011 11:01 AM**	**05/12/2011 4:18 PM**	1	0.01	0.011		0.011		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 11:01 AM**	**05/12/2011 10:43 AM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 11:01 AM**	**05/12/2011 3:30 PM**	1	10	936		936		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 11:01 AM**	**05/12/2011 10:39 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 11:01 AM**	**05/13/2011 4:30 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-09A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 11:01 AM**	**05/27/2011 2:11 PM**	1	0.0003	0.00148	N	0.00148		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	2405928	5-14-11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Con-tainers	Remarks:	Lab ID
									1
									2
									3
									4
									5
									6
									7
									8 DUP
									9 10

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Fedex	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2105[illegible]26	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A
Ft Walton Beach, FL 32549
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 31 38

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Remarks:	Lab ID
GW	5/5/11	926		✓	MW02		7	X		X	X	X	X	X		X			* ii	~~1~~
GW	5/5/11	1223		✓	MA02 MW001D		12	X	X	X	X	X	X	X	X	X				~~11~~
GW	5/5/11	1516		✓	M114 MW004		12	X	X	X	X	X	X	X	X	X				~~12~~
	5/5/11	926			TB1		3													~~13~~
	5/5/11	926			TB2		3													~~14~~

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/6/11	[illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample in the website

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix1: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/11/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0071
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Mellrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALK / TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X	12	/
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X	13	

Turn Around Time: ☐ 24/48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	5/12/11	1500
FedEx		5/12/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SO = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504126	5/20/11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
									/
								14	
								15	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[illegible]	05/13/11	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

040 0214000172

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504 26	5/20/11

Report to:
Client:
Address:
Contact:
Phone:
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
								16	/
								17* Dup	
								18* 19	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedX		
Relinquished by: (Signature) FedX	Received by: (Signature) ACM	Date: 5/14/11	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * no Cl/SO4 MS/MSD batch QC on sample MW018

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

LAB COPY

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2110504276	5/20/11

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Lab ID
								/

Remarks:
RSH 19 20
5/16/11 ~~20~~ 21

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed Ex		
Relinquished by: (Signature) Fed Ex	Received by: (Signature)	Date: 5/18/11	Time: 08 45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Trinity	4747	2110584 26	
Client Name	Client #	Workorder #	Due Date

Report to:

Client:
Address:
Contact:
Phone:
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
								2110519040 1	/
								2X22 RSM 6/14/11	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[illegible]	5/18/11	0555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

Data Validation Report

Melrose AFB Annual

Trinity Analysis & Development Corp

SDG: 211050608 Date: July 21, 2011

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: July 21, 2011

Sample Delivery Group: 211050608

Project Name: Melrose AFB Annual

Data validation personnel: Dana Hebert and Tony Duhon

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Anthony Duhon Date: July 21, 2011

INTRODUCTION:

SDG: 211050608
Project Name: Melrose AFB Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received one electronic data package containing the results for ten field samples, one field duplicate, one equipment rinsate and eight trip blanks. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review* and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MA02MW001D	21105060801	5/5/2011 12:23:00 PM	[1-14]
M114MW004	21105060802	5/5/2011 3:16:00 PM	[1-14]
TB1	21105060803	5/5/2011 9:26:00 AM	[1]
TB2	21105060804	5/5/2011 9:26:00 AM	[1]
M114MW002	21105060805	5/6/2011 11:35:00 AM	[1-14]
EB1	21105060806	5/6/2011 12:30:00 PM	[1-14]
M114MW003	21105060807	5/6/2011 2:30:00 PM	[1-14]
TB4	21105060808	5/6/2011	[1]
TB5	21105060809	5/6/2011	[1]
MA01MW001	21105060810	5/9/2011 2:16:00 PM	[1-14]
TB6	21105060814	5/9/2011	[1]
M114MW001	21105060815	5/9/2011 9:55:00 AM	[1-14]
M114MW001-DUP	21105060816	5/9/2011 9:55:00 AM	[1-14]
TB8	21105060817	5/10/2011	[1]
MA0MW004	21105060818	5/10/2011 11:11:00 AM	[1-14]
MA0MW003	21105060819	5/10/2011 1:20:00 PM	[1-14]
TB7	21105060820	5/10/2011	[1]
MA01MW002	21105170901	5/16/2011 9:35:00 AM	[1-14]
MWQ23	21105170902	5/16/2011 11:10:00 AM	[1-14]
TB9	21105170903	5/16/2011	[1]

Analyses Performed Codes:

[1] Volatile Organics – SW-846 8260B
[2] Explosives – SW-846 8330
[3] Sulfate and Chloride – EPA 300.0
[4] Nitrate – EPA 353.2
[5] Nitrite – EPA 353.2
[6] Total Cyanide – SW-846 9012B
[7] Total Alkalinity – SM 2320B
[8] Total Dissolved Solids – SM 2540C
[9] Hexavalent Chromium – SW-846 7196A

[10] TAL Metals (total) – SW-846 6010C
[11] Mercury (total) – SW-846 7470A
[12] TAL Metals (Dissolved) – SW-846 6010C
[13] Mercury (Dissolved) – SW-846 7470A
[14] Perchlorate – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

The laboratory transcribed field sample names which began with “MA0…” as “MAO…”. These sample names were corrected for this validation report. Due to database structure and reporting constraints, eDATApro created secondary lab sample IDs for the dissolved metals analyses and results. A “D” was appended to the lab sample IDs for these analyses.

The RPD values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method SW-846 8260B - Volatile Organic Analyses:

Recovery of Acetone in the continuing calibration verification sample leading the analyses of samples M114MW001, M114MW001-DUP, TB8, MA0MW004, MA0MW003, and TB7 exceeded lower acceptance criteria. Laboratory results of this analyte in these samples were modified to estimate (J, UJ). The laboratory qualified these target analytes with a “Q”. This qualifier was removed during the validation review.

A measurable quantity of Acetone was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB945623. The laboratory qualified associated results with “B”. This qualifier was removed from non-detect values. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

III. Method SW-846 8330 - Explosives

Recovery of target analyte HMX the LCS and LCSD samples from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a “Q”. This qualifier was removed during the validation review.

Recovery of numerous target analytes in the matrix spike and matrix spike duplicate fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.

IV. Method EPA 300.0 – Sulfate and Chloride

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

V. Method EPA 353.2 – Nitrate and Nitrite

A measurable quantity of Nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory results of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.

VI. Method SW-846 9012B – Total Cyanide

Recovery of Cyanide in the matrix spike fortification of preparation batch 456439 exceeded lower acceptance criteria. The parent sample was not selected from this delivery group, and all other QC recoveries were within acceptance criteria. No result qualifications were applied based upon this exceedence.

VII. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VIII. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IX. Method SW-846 7196A – Hexavalent Chromium

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

X. Method SW-846 6010C – TAL metals (total)

Recoveries of Calcium, Magnesium and Sodium in all matrix spike and matrix spike duplicate analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

A measurable quantity of Manganese was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

Measurable quantities of total analytes Barium, Copper, Manganese and Zinc were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to non-detect (U) at the corresponding RLs.

XI. Method SW-846 6010C – TAL metals (dissolved)

Measurable quantities of Barium (Dissolved) and Cadmium (Dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (Dissolved). Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.

A measurable quantity of Barium (Dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The Barium (Dissolved) result in sample EB1 was modified to non-detect (U) at the RL.

Measurable quantities of Aluminum (Dissolved), Arsenic (Dissolved), Cadmium (Dissolved), Copper (Dissolved) and Zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to non-detect (U) at the corresponding RLs.

Please note that the results for Calcium, Magnesium, Potassium and Sodium in several samples; Copper and Vanadium in sample MA01MW002; Selenium in sample MA02MW001D; and Manganese and Zinc in sample MWQ23 were reported with higher concentrations from the “dissolved” analyses than from the “total” analyses. No result qualifications were applicable.

XII. Method SW-846 7470A – Mercury (total)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIV. Method SW-846 6860 – Perchlorate

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The use of alternate volumes in the preparation of samples MA02MW001D, M114MW004, M114MW002, M114MW003, M114MW001 and M114MW001-DUP was required due to the high concentrations of dissolved solids in these samples. Reporting limits were adjusted accordingly.

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Acetone	EB1	3.54	JB	5	U	Method blank contamination.
Acetone	M114MW001	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	M114MW001-DUP	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	MA0MW003	7.24		7.24	J	Low recovery in CCV standard.
Acetone	MA0MW004	17.6		17.6	J	Low recovery in CCV standard.
Acetone	TB1	2.51	JB	5	U	Method blank contamination.
Acetone	TB4	3.22	JB	5	U	Method blank contamination.
Acetone	TB7	0.322	U	0.322	UJ	Low recovery in CCV standard.
Acetone	TB8	0.322	U	0.322	UJ	Low recovery in CCV standard.
HMX	EB1	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW001	0.035	U	0.035	UJ	Low recovery in LCS/LCSD.
HMX	M114MW001-DUP	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW002	0.039	U	0.039	UJ	Low recovery in LCS/LCSD.
HMX	M114MW003	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	M114MW004	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MA01MW001	0.037	U	0.037	UJ	Low recovery in LCS/LCSD.
HMX	MA01MW002	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MA02MW001D	0.07	U	0.07	UJ	Low recovery in LCS/LCSD.
HMX	MA0MW003	0.037	U	0.037	UJ	Low recovery in LCS/LCSD.
HMX	MA0MW004	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
HMX	MWQ23	0.036	U	0.036	UJ	Low recovery in LCS/LCSD.
Aluminum (Dissolved)	M114MW001	77.6	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	M114MW003	67.3	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	MA01MW001	105	B	200	U	Equipment rinsate contamination.
Aluminum (Dissolved)	MA01MW002	164	B	200	U	Equipment rinsate contamination.
Arsenic (Dissolved)	M114MW001	2.74	B	10	U	Equipment rinsate contamination.
Arsenic (Dissolved)	M114MW004	4.01	B	10	U	Equipment rinsate contamination.
Arsenic (Dissolved)	MA02MW001D	5.99	B	10	U	Equipment rinsate contamination.
Barium (Dissolved)	EB1	3.53	B	10	U	Method blank contamination. CCB contamination.
Cadmium (Dissolved)	EB1	0.25	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW001	0.88	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW001-DUP	0.83	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW002	0.69	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW003	0.81	B	5	U	Method blank contamination.
Cadmium (Dissolved)	M114MW004	0.9	B	5	U	Method blank contamination.
Copper	MWQ23	4.95	B	10	U	Equipment rinsate contamination.
Copper (Dissolved)	MWQ23	5.49	B	10	U	Equipment rinsate contamination.
Manganese	EB1	3.46	B	15	U	Method blank contamination.
Manganese	M114MW001	4.1	B	15	U	Method blank contamination.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Manganese	M114MW001-DUP	4.33	B	15	U	Method blank contamination.
Manganese	M114MW002	9.22	B	15	U	Method blank contamination.
Manganese	M114MW003	7.83	B	15	U	Method blank contamination.
Manganese	M114MW004	5.27	B	15	U	Method blank contamination.
Manganese	MA01MW001	12.6	B	15	U	Method blank contamination.
Manganese	MA0MW003	7.94	B	15	U	Method blank contamination.
Manganese	MA0MW004	6.88	B	15	U	Method blank contamination.
Zinc	M114MW003	17.5	B	20	U	Equipment rinsate contamination.
Zinc	MA01MW001	2.74	B	20	U	Equipment rinsate contamination.
Zinc	MA0MW003	13.4	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	M114MW003	14.2	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	MA0MW003	4.16	B	20	U	Equipment rinsate contamination.
Zinc (Dissolved)	MA0MW004	9.8	B	20	U	Equipment rinsate contamination.
Nitrite	MA01MW001	0.004	B	0.01	U	Method blank contamination.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.278	U	0.278	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.504	U	0.504	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.606	U	0.606	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.178	U	0.178	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.214	U	0.214	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.232	U	0.232	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.07	U	0.07	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.272	U	0.272	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.132	U	0.132	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.4	U	0.4	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.204	U	0.204	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.154	U	0.154	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.28	U	0.28	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.337	U	0.337	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.099	U	0.099	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.119	U	0.119	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.129	U	0.129	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.039	U	0.039	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.151	U	0.151	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.073	U	0.073	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.222	U	0.222	U	ug/L	

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.206	U	0.206	U	ug/L	

DF = Dilution Factor
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U = Non-Detect
J = Estimated
D = Results are from a dilution
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.211	U	0.211	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.14	U	0.14	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.255	U	0.255	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.306	U	0.306	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.09	U	0.09	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.108	U	0.108	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.117	U	0.117	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.035	U	0.035	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.137	U	0.137	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.202	U	0.202	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.206	U	0.206	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.211	U	0.211	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	200	**79.6**	**B**	**79.6**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:59 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**19.8**		**19.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**127000**		**127000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**226**		**226**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:59 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**71800**		**71800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	15	**248**		**248**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	50	**18.1**	**B**	**18.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	500	**10400**		**10400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**94.7**		**94.7**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:01 PM**	**25**	25000	**1930000**		**1930000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:59 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**69.9**		**69.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**129**		**129**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:59 PM**	1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	5.99	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**12.7**		**12.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**127000**		**127000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**116**		**116**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**73500**		**73500**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	15	**208**		**208**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	50	**17.5**	**B**	**17.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**1.44**	**B**	**1.44**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**107**		**107**		**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:10 PM**	**25**	25000	**1910000**		**1910000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**66.2**		**66.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**128**		**128**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:33 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**23.8**		**23.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	5	**0.35**	**B**	**0.35**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**326000**		**326000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**36.9**		**36.9**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**285000**		**285000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	50	**12.5**	**B**	**12.5**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	500	**20300**		**20300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:08 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**74.9**		**74.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**655**		**655**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:05 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	60	**4.59**	**B**	**4.59**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	4.01	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**17.8**		**17.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.9	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**338000**		**338000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**35.2**		**35.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**295000**		**295000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	15	**3.11**	**B**	**3.11**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	50	**13**	**B**	**13**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	500	**20600**		**20600**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	40	**18.9**	**B**	**18.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:17 PM**	**25**	25000	**2240000**		**2240000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**68.9**		**68.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**653**		**653**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	200	**78.8**	**B**	**78.8**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**23.9**		**23.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**252000**		**252000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**29.8**		**29.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**160**		**160**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**238000**		**238000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	9.22	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**27**	**B**	**27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**20**	**B**	**20**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:15 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:12 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:12 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**81**		**81**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**175**		**175**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:12 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**17.5**		**17.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**257000**		**257000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**25.1**		**25.1**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**26.2**	**B**	**26.2**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**21.8**	**B**	**21.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:24 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**74.3**		**74.3**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**163**		**163**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:01 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	200	**63.6**	**B**	**63.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:26 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**20.9**		**20.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**130**		**130**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	7.83	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	50	**8.07**	**B**	**8.07**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:26 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	500	**19800**		**19800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	40	**30.7**	**B**	**30.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:22 PM**	**25**	25000	**2620000**		**2620000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:26 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	20	**79.7**		**79.7**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	17.5	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:26 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	200	67.3	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**14.6**		**14.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.81	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**22**		**22**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**271000**		**271000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	50	**8.48**	**B**	**8.48**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	500	**19700**		**19700**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	40	**31.5**	**B**	**31.5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:31 PM**	**25**	25000	**2550000**		**2550000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	20	**76.2**		**76.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	14.2	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:15 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	200	**276**		**276**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**27.8**		**27.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**49700**		**49700**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**204**		**204**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**48700**		**48700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	12.6	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	50	**4.94**	**B**	**4.94**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	40	**2.96**	**B**	**2.96**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	500	**7780**		**7780**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 7:35 PM**	**5**	5000	**567000**		**567000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**3.16**	**B**	**3.16**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	20	**61.1**		**61.1**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	2.74	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:04 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	200	105	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**18**		**18**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50800**		**50800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**13.4**		**13.4**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**46.6**	**B**	**46.6**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50100**		**50100**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	15	**2.16**	**B**	**2.16**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	50	**5.66**	**B**	**5.66**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	500	**7880**		**7880**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 4:46 PM**	**5**	5000	**588000**		**588000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	20	**58.3**		**58.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 5:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:47 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:47 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:47 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	5	**0.31**	**B**	**0.31**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**269000**		**269000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**22.5**		**22.5**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**79.9**	**B**	**79.9**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**239000**		**239000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	4.1	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	50	**16.9**	**B**	**16.9**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**19.7**	**B**	**19.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	500	**18500**		**18500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**31.1**	**B**	**31.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:29 PM**	**25**	25000	**1960000**		**1960000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:47 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:47 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**75.3**		**75.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**47.2**		**47.2**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:47 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	200	77.6	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	2.74	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**18.7**		**18.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.88	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**280000**		**280000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**21**		**21**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**250000**		**250000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	50	**17.9**	**B**	**17.9**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**19.1**	**B**	**19.1**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	500	**19300**		**19300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**28.8**	**B**	**28.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:38 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**73.5**		**73.5**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**46.8**		**46.8**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:22 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	200	**64.5**	**B**	**64.5**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:54 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**25.3**		**25.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:54 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	5	**0.3**	**B**	**0.3**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**276000**		**276000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**22.8**		**22.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**91.3**	**B**	**91.3**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	4.33	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	50	**17.6**	**B**	**17.6**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**20.7**	**B**	**20.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**27.2**	**B**	**27.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:36 PM**	**25**	25000	**2060000**		**2060000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:54 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:54 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**76.3**		**76.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**50.5**		**50.5**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:54 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**18.8**		**18.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**278000**		**278000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**20.5**		**20.5**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**248000**		**248000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	50	**18.2**	**B**	**18.2**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**26.8**	**B**	**26.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:45 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**72.4**		**72.4**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**46.9**		**46.9**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:28 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 10:00 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:00 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**30.7**		**30.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**38200**		**38200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**5.09**	**B**	**5.09**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**87.7**		**87.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**176**		**176**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	15	**2.3**	**B**	**2.3**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**36600**		**36600**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:00 PM**	1	15	6.88	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	50	**7.31**	**B**	**7.31**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**2.29**	**B**	**2.29**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	500	**6610**		**6610**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**4.44**	**B**	**4.44**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:46 PM**	**1**	1000	**308000**		**308000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:00 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:00 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**58.8**		**58.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**22.3**		**22.3**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:00 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**36800**		**36800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**1.3**	**B**	**1.3**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23**		**23**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**35000**		**35000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	15	**2.26**	**B**	**2.26**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	50	**6.27**	**B**	**6.27**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	500	**6400**		**6400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:56 PM**	**1**	1000	**297000**		**297000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	20	**56.4**		**56.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	9.8	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:35 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	200	**111**	**B**	**111**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:08 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**28.8**		**28.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63100**		**63100**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**4.46**	**B**	**4.46**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**44**		**44**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**116**		**116**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63400**		**63400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	7.94	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	50	**4.39**	**B**	**4.39**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	500	**8970**		**8970**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:53 PM**	**1**	1000	**469000**		**469000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:08 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	20	**68.2**		**68.2**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	13.4	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:08 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**20.2**		**20.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**59600**		**59600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**2.19**	**B**	**2.19**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**17.7**		**17.7**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**60300**		**60300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	50	**4.09**	**B**	**4.09**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	500	**8430**		**8430**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:03 PM**	**1**	1000	**458000**		**458000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	20	**65.5**		**65.5**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	4.16	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:42 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 11:41 PM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	60	**102**		**102**		**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**17.6**		**17.6**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**35100**		**35100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**11**		**11**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 11:41 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**34200**		**34200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	15	**2.76**	**B**	**2.76**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	50	**7.44**	**B**	**7.44**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 11:41 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	500	**6860**		**6860**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	40	**5.87**	**B**	**5.87**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/20/2011 11:29 PM**	**1**	1000	**491000**		**491000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 11:41 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**50.8**		**50.8**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**20.1**		**20.1**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 11:41 PM**	1	0.2	0.081	U	0.081	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	200	164	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**16.5**		**16.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**37400**		**37400**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**11.6**		**11.6**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**36700**		**36700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	50	**8.79**	**B**	**8.79**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	500	**7280**		**7280**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:01 PM**	**1**	1000	**527000**		**527000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	20	**53.4**		**53.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 10:29 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/25/2011 12:17 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/25/2011 12:17 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**3.23**	**B**	**3.23**	**B**	**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**13600**		**13600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	4.95	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**43.8**	**B**	**43.8**	**B**	**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**1.92**	**B**	**1.92**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**9350**		**9350**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**66.8**		**66.8**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	50	**31.9**	**B**	**31.9**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	500	**2520**		**2520**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/21/2011 12:07 AM**	**1**	1000	**451000**		**451000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/25/2011 12:17 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/25/2011 12:17 AM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**16.1**	**B**	**16.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**24.7**		**24.7**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/25/2011 12:17 AM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**14400**		**14400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 11:18 PM**	1	1	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	5.49	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**9750**		**9750**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	15	**70.1**		**70.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	50	**34**	**B**	**34**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	500	**2680**		**2680**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:38 PM**	**1**	1000	**489000**		**489000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**16.5**	**B**	**16.5**	**B**	**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**25**		**25**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 11:18 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA02MW001D**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060801**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	101	2190		2190		mg/L
Sulfate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	5	0.05	1.56		1.56		mg/L-
Nitrite	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	1	130		130		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	6290		6290		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.00149	0.0224		0.0224		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
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SDG: 11050608

Sample Name:	**M114MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060802**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	101	4180		4180		mg/L
Sulfate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	200	2110		2110		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.9		0.9		mg/L-
Nitrite	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	1	56.6		56.6		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	7000		7000		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.000594	0.00279		0.00279		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060805**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	101	3660		3660		mg/L
Sulfate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.375		0.375		mg/L-
Nitrite	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	1	69.2		69.2		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	7800		7800		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.000594	0.0028		0.0028		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
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SDG: 11050608

Sample Name:	**M114MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060807**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	101	4550		4550		mg/L
Sulfate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	200	2460		2460		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.719		0.719		mg/L-
Nitrite	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	1	44.5		44.5		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	9540		9540		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.000594	0.0041		0.0041		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

DF = Dilution Factor
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA01MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060810**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	50	651		651		mg/L	
Sulfate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	101	704		704		mg/L	
Method: EPA 353.2										
Nitrate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.233		0.233		mg/L-	
Nitrite	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.004	B	0.01	U	mg/L-	*
Method: SM 2320 B										
Total Alkalinity	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	1	169		169		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	1980		1980		mg/L	
Method: SW-846 6860										
Perchlorate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.0003	0.000369		0.000369		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060815**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	101	3280		3280		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	200	2140		2140		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	5	0.05	0.901		0.901		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	1	79.1		79.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	8270		8270		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.000594	0.00327		0.00327		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**M114MW001-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060816**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	101	3250		3250		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	200	2150		2150		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	2	0.02	0.915		0.915		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	1	82.1		82.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	8310		8310		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.000594	0.00324		0.00324		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA0MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060818**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	20	269		269		mg/L
Sulfate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	40	352		352		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.615		0.615		mg/L-
Nitrite	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	1	192		192		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	1110		1110		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.0003	0.0098		0.0098		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	7	B	7	B	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.005	0.0013	B	0.0013	B	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA0MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060819**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	50	537		537		mg/L
Sulfate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	101	616		616		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.163		0.163		mg/L-
Nitrite	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	1	161		161		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	1760		1760		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.0003	0.00103		0.00103		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	18		18		ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MA01MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105170901**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	20	473		473		mg/L
Sulfate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	40	544		544		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.325		0.325		mg/L-
Nitrite	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	1	171		171		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	1780		1780		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.0003	0.00205		0.00205		mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name:	**MWQ23**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105170902**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	20	235		235		mg/L
Sulfate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	40	423		423		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Nitrite	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	1	327		327		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	1420		1420		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.0003	0.0003	U	0.0003	U	mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**
Analysis Date: **05/09/2011 9:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**
Analysis Date: **05/09/2011 9:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16		16		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**
Analysis Date: **05/09/2011 10:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**
Analysis Date: **05/09/2011 10:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	12.4		12.4		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**
Analysis Date: **05/09/2011 11:11 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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J = Estimated
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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**
Analysis Date: **05/09/2011 11:11 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16.3		16.3		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**
Analysis Date: **05/10/2011 12:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**
Analysis Date: **05/10/2011 12:01 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	4.55		4.55		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**
Analysis Date: **05/10/2011 5:58 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**
Analysis Date: **05/10/2011 5:58 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	6.28		6.28		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 10:52 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 10:52 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	3.06		3.06		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 11:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
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* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**
Analysis Date: **05/11/2011 11:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	2.99		2.99		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**
Analysis Date: **05/11/2011 12:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	17.6		17.6	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**
Analysis Date: **05/11/2011 12:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**
Analysis Date: **05/11/2011 12:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	7.24		7.24	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**
Analysis Date: **05/11/2011 12:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**
Analysis Date: **05/18/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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U = Non-Detect
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**
Analysis Date: **05/18/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	1.89		1.89		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

eDATApro
ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**
Analysis Date: **05/18/2011 1:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

eDATApro
ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**
Analysis Date: **05/18/2011 1:28 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Tinker	4747	21105060 ~~21105060~~	5-13-11

Report to:
Client: Tinker ADC
Address: 90 NW Beal Pkwy Suite 2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-313-0072
Fax: 850-313-0075

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Petroleum Hydrocarbons	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Remarks:	Lab ID
GW	5/5/11	936		✓	MWQ2		7	X		X	X	X	X	X		X			*	~~13~~ 2
GW	5/5/11	1523		✓	MAO2 MWCOUD		12	X	X		X	X		X	X	X			1	~~14~~ 2
GW	5/5/11	1511		✓	M114 MWCOM		12	X	X	X	X	X	X	X	X	X			2	~~15~~ 2
	5/5/11	936			TB2		3												3	~~16~~ 2
	5/5/11	936			TB2		3												4	~~17~~ 2

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/6/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* Sample was a reported water

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	2405060E	

Report to:
Client: Trinity ADC
Address: 90 NM Bend Pkwy Suite A2
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850243-2072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Toxicity Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	CL/SO4/NO3/NO2	Alkt/TS	VOC (HCl) 8260			Remarks:	Lab ID
GW	5/6/11	1135		X	M114 MW007		17	X	X	X	X	X	X	X	X	X				5
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X				6
GW	5/6/11	1430		X	M114MW003		17	X	X	X	X	X	X	X	X	X				7
	5/6/11				TB4		3									X				8
	5/6/11				TB5		3									X				9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fedex	5/6/11	1523
Relinquished by: (Signature) Fedex	Received by: (Signature) [signature]	Date: 5/7/11 5/6/11	Time: 0857
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

Chg. 00000077

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4147	21105060E	5-17-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Chloride (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CrVI (NaOH/NaO3/MnCl2)			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X		X	X	X		*	
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X		*	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X			10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X			11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X			12, 13
	5/9/11				TB6		3					X							14
	~~5/9/11~~				~~TB7~~		~~3~~					X							

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex	[signature]	5-10-11	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample will be received at lab 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050608	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 2450072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	CTISO4/NO3/NO2	CrVI			Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X			*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X			*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X				
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X				
	5/9/11				TB6		3					X								
	5/9/11				TB7		3					X								
	5/10/11				TB8 *															17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Foley	M	5-10-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* samples received 5-10-11 @ 725

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	5-18-4

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCL)	ALKTS	Cl/SO4 /NO3	CrVI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				19
	5/10/11				TB7		3						X							20
					TB8		3						X						X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex		5/11/11	845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

21105060 8

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~21105042b~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy AZ
Fort Walton Beach FL 32548
Contact: J. Kilmer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Illsamer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide	CN (NaOH)	Chloride (NaOH)	Sulfate	Chloride/NaOH	SVOC/TS	VOC (HCL)			Remarks:	Lab ID
GW	5/16/11	955		X	MAC1 MWX02		12	X	X	X	X	X	X	X	X	X			21	21105170901
GW	5/16/11	1100		X	MWX23		12	X	X	X	X	X	X	X	X	X			22	21105170902
					TB9		3									X			23	21105170903

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/16/11	1539
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fed Ex	Fed Ex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	[signature]	5/17/11	0900

Note: MWQ23 was not field filtered. Filter in lab.

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

Data Validation Report

Melrose AFB Semi-Annual

Trinity Analysis & Development Corp

SDG: 2110928048 Date: October 30, 2011

Environmental Data Professional, LLC
212 Doctor Michael DeBakey Drive • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

The validation performed and reported herein is based on specifications and procedures presented to eDATApro with the associated data package. Any qualifications or review not specified with package requirements was based on USEPA National Functional Guidelines for Inorganic and Organic Data Review.

Information contained in this report is based solely on the hardcopy and/or electronic deliverables that were submitted to eDATApro. eDATApro reserves the rights to modify or change the validation report if new information is presented or if this report is determined to be inaccurate or incomplete.

Cover Letter

Validation Report Date: October 30, 2011

Sample Delivery Group: 2110928048

Project Name: Melrose AFB Semi-Annual

Data validation personnel: Dana Hebert and Tony Duhon

Data Deliverables Included:

Validation Report:

✓ Introduction

✓ Sample Identification Cross- Reference Table

✓ Data Validation Findings Summary

✓ Table 1-1, Summary of Qualified Data

✓ Table 1-2, Data Qualifier Reference Table

✓ Appendix I, Form I Data (qualified)

✓ Appendix II, Chain of Custody

Approval Signature: Anthony Duhon Date: October 30, 2011

INTRODUCTION:

SDG: 2110928048
Project Name: Melrose AFB Semi-Annual
Laboratory: Gulf Coast Analytical Laboratories/DHL Analytical
Matrix: Water

Environmental Data Professional, LLC (eDATApro) received two data packages containing the results for ten field samples, one field duplicate, one equipment rinsate and five trip blanks. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review*, analytical methods and the project specific Quality Assurance Project Plan.

The following samples were reviewed:

Sample ID	Lab ID	Collection Date/Time	Analyses
MA01MW001	21109280401	9/27/2011 9:33:00 AM	[1-14]
MA01MW003	21109280402	9/27/2011 12:21:00 PM	[1-14]
TB-1	21109280405	9/27/2011 4:33:00 PM	[1]
MA02MW001D	21109280407	9/28/2011 10:28:00 AM	[1-14]
FD-1	21109280408	9/28/2011 10:28:00 AM	[1-14]
TB-2	21109280409	9/28/2011 10:28:00 AM	[1]
MWQ-23	21109280410	9/29/2011 8:40:00 AM	[1-14]
MA01-MW004	21109280411	9/29/2011 11:10:00 AM	[1-14]
MA01-MW002	21109280412	9/29/2011 1:06:00 PM	[1-14]
TB-4	21109280413	9/29/2011 8:40:00 AM	[1]
M114MW004	21110010501	9/30/2011 10:00:00 AM	[1-14]
M114MW001	21110010502	9/30/2011 12:36:00 PM	[1-14]
TB-5	21110010503	9/30/2011 10:00:00 AM	[1]
EB-1	21110010504	10/3/2011 8:00:00 AM	[1-14]
M114MW002	21110010505	10/3/2011 9:32:00 AM	[1-14]
M114MW003	21110010506	10/3/2011 11:46:00 AM	[1-14]
TB-6	21110010507	10/3/2011 8:00:00 AM	[1]

Analyses Performed Codes:

[1] Volatile Organics – SW-846 8260B
[2] Explosives – SW-846 8330
[3] Sulfate and Chloride – EPA 300.0
[4] Nitrate – EPA 353.2
[5] Nitrite – EPA 353.2
[6] Total Cyanide – SW-846 9012A
[7] Total Alkalinity – SM 2320B
[8] Total Dissolved Solids – SM 2540C
[9] Hexavalent Chromium – SW-846 7196A
[10] TAL Metals (total) – SW-846 6010C
[11] Mercury (total) – SW-846 7470A
[12] TAL Metals (Dissolved) – SW-846 6010C
[13] Mercury (Dissolved) – SW-846 7470A
[14] Perchlorate (Filtered and Unfiltered) – SW-846 6860

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

The laboratory data packages were complete. No resubmissions were required.

The relative percent difference (RPD) values between the field sample and the field duplicate were acceptable for all target analytes unless otherwise noted below.

II. Method SW-846 8260B - Volatile Organic Analyses:

Recovery of n-Butylbenzene in the continuing calibration verification sample leading the analysis of sample MWQ-23 exceeded upper acceptance criteria. This analyte was not detected in this sample. No qualification of the laboratory result was necessary. The laboratory qualified this laboratory result with a “Q”. This qualifier was removed during the validation review.

Recovery of Chloroethane in the continuing calibration verification sample leading the analyses of samples MA02MW001D, FD-1 and TB-2 exceeded upper acceptance criteria. This analyte was not detected in these samples. Qualification of these laboratory results was not necessary. The laboratory qualified these laboratory results with a “Q”. These qualifiers were removed during the validation review.

An estimate concentration of Acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.

Estimate concentrations of Acetone and Methylene Chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding reporting limit (RL).

Estimate concentrations of Acetone and Methylene Chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of Acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.

III. Method SW-846 8330 - Explosives

Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with “UJ”. No further qualification of these results was necessary.

Recovery of 1,3-Dinitrobenzene in the MSD fortification of parent sample MA01MW003 exceeded lower acceptance criteria. Recovery of this analyte in the matrix spike sample and in laboratory control samples did not exceed acceptance criteria. No result qualifications were necessary.

IV. Method EPA 300.0 – Sulfate and Chloride

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

V. Method EPA 353.2 – Nitrate and Nitrite

Recovery of Nitrate in the MS and MSD fortifications of parent sample M114MW002 exceeded lower acceptance criteria. The laboratory results of this analyte in samples associated with this MS/MSD pair were modified to estimate (J, UJ).

VI. Method SW-846 9012A – Total Cyanide

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VII. Method SM 2320B – Total Alkalinity

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

VIII. Method SM 2540C - Total Dissolved Solids

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

IX. Method SW-846 7196A – Hexavalent Chromium

Method 7196A is a colorimetric analysis that requires filtration of samples prior to measurement. The results of this analysis are used to calculate both the total and dissolved Trivalent Chromium reported with the TAL Metals.

Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).

X. Method SW-846 6010C – TAL metals (total)

Several analyte concentrations of total metals were less than the concentration of the corresponding dissolved analyte concentration. The laboratory attributed this anomaly to lack of homogeneity between field sample aliquots. No gross differences were observed.

Recoveries of Calcium, Magnesium and Sodium in all matrix spike (MS) and matrix spike duplicate (MSD) analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

An estimate concentration of Sodium was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.

Estimate concentrations of Sodium were observed in continuing calibration blank (CCB) samples bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and MA01-MW002. No estimate concentrations of this analyte were reported in these samples. No result qualifications were necessary.

An estimate concentration of Barium was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.

An estimate concentration of Silver was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.

Recoveries of Arsenic, Potassium and Selenium in the MSD fortification of parent sample M114MW004 exceeded upper acceptance criteria. Recovery of these analytes in the matrix spike sample, post-digestion spike analysis and in laboratory control sample did not exceed acceptance criteria. No result qualifications were applied based on these exceedences.

Estimate concentrations of Manganese, Nickel and Zinc were reported in equipment rinsate blank sample EB-1. The laboratory results for Manganese in samples M114MW002 and M114MW003 and Nickel in sample M114MW002 were modified to non-detect (U) at the RL.

XI. Method SW-846 6010C – TAL metals (dissolved)

Recoveries of Calcium (dissolved), Magnesium (dissolved) and Sodium (dissolved) in all MS and MSD analyses exceeded upper acceptance criteria; however, the un-spiked sample concentrations of these analytes were greater than four times (4x) the concentration of the analyte fortification. No result qualifications were applied based upon these recoveries.

Recoveries of Potassium (dissolved) in the MS and Arsenic (dissolved), Potassium (dissolved) and Selenium (dissolved) in the MSD fortifications of parent sample M114MW004 exceeded upper acceptance criteria. Recovery of these analytes in the matrix spike sample, post-digestion spike analysis and in laboratory control sample did not exceed acceptance criteria. No result qualifications were applied based on these exceedences.

XII. Method SW-846 7470A – Mercury (total)

Recoveries of Mercury in lab-generated MS and MSD fortifications of parent sample M114MW002 exceeded lower acceptance criteria. Laboratory results for this analyte in samples associated to this MS/MSD pair were modified to estimate (J, UJ).

XIII. Method SW-846 7470A – Mercury (dissolved)

All quality assurance and quality control (QA/QC) components presented by the laboratory satisfied method and data review acceptance criteria; therefore, no data qualifications were necessary.

XIV. Method SW-846 6860 – Perchlorate (Filtered and Unfiltered)

The Perchlorate analyses were performed by DHL Analytical in Round Rock, Texas.

The laboratory applied a qualifier of “N” to the results to indicate that the laboratory was not NELAC certified for this analyte at the time of analysis. This qualifier was removed for validation.

Recovery of Perchlorate (filtered) in the MS and MSD fortifications of parent sample MA01MW003 exceeded upper acceptance criteria. Laboratory results with reportable concentrations of this analyte for samples from this delivery group were modified to estimate (J) at the concentration reported.

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Acetone	M114MW001	1.41	J	5	U	Trip blank contamination.
Acetone	M114MW002	0.909	J	5	U	Trip blank contamination. Equipment rinsate contamination.
Acetone	M114MW003	1.75	J	5	U	Trip blank contamination. Equipment rinsate contamination.
Chloroethane	FD-1	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Chloroethane	MA02MW001D	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Chloroethane	TB-2	0.279	UQ	0.279	U	Removal of laboratory qualifier.
Methylene chloride	M114MW001	0.891	J	5	U	Trip blank contamination.
Methylene chloride	M114MW003	1.37	J	5	U	Trip blank contamination. Equipment rinsate contamination.
n-Butylbenzene	MWQ-23	0.068	UQ	0.068	U	Removal of laboratory qualifier.
Barium	EB-1	2.23	B	10	U	Preparation blank contamination.
Manganese	M114MW002	3.12	B	15	U	Equipment rinsate contamination.
Manganese	M114MW003	6.87	B	15	U	Equipment rinsate contamination.
Mercury	EB-1	0.10037	B	0.10037	J	Low recovery in MS/MSD.
Mercury	M114MW001	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Mercury	M114MW002	0.10199	B	0.10199	J	Low recovery in MS/MSD.
Mercury	M114MW003	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Mercury	M114MW004	0.075	U	0.075	UJ	Low recovery in MS/MSD.
Nickel	M114MW002	39.4	B	40	U	Equipment rinsate contamination.
Silver	EB-1	0.67	B	10	U	Continuing calibration blank contamination.
Chromium VI	FD-1	6	B	6	J	Holding time exceedence.
Chromium VI	M114MW002	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MA01MW001	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MA02MW001D	3.3	U	3.3	UJ	Holding time exceedence.
Chromium VI	MWQ-23	3.3	U	3.3	UJ	Holding time exceedence.
Nitrate	EB-1	0.003	U	0.003	UJ	Low recovery in MS/MSD.
Nitrate	M114MW001	0.899		0.899	J	Low recovery in MS/MSD.
Nitrate	M114MW002	0.245		0.245	J	Low recovery in MS/MSD.
Nitrate	M114MW003	0.43		0.43	J	Low recovery in MS/MSD.
Nitrate	M114MW004	0.511		0.511	J	Low recovery in MS/MSD.
Perchlorate	EB-1	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	EB-1	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	FD-1	0.0231	N	0.0231	J	Low recovery in MS/MSD.
Perchlorate	M114MW001	0.0027	N	0.0027	J	Low recovery in MS/MSD.
Perchlorate	M114MW002	0.00277	N	0.00277	J	Low recovery in MS/MSD.
Perchlorate	M114MW003	0.00329	N	0.00329	J	Low recovery in MS/MSD.
Perchlorate	M114MW004	0.00254	N	0.00254	J	Low recovery in MS/MSD.
Perchlorate	MA01MW001	0.000266	N	0.000266	J	Low recovery in MS/MSD.
Perchlorate	MA01MW001	0.000357	JN	0.000357	J	Removal of laboratory qualifier.
Perchlorate	MA01-MW002	0.00149	N	0.00149	J	Low recovery in MS/MSD.
Perchlorate	MA01MW003	0.000413	JN	0.000413	J	Removal of laboratory qualifier.

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
Perchlorate	MA01MW003	0.000298	N	0.000298	J	Low recovery in MS/MSD.
Perchlorate	MA01-MW004	0.00353	N	0.00353	J	Low recovery in MS/MSD.
Perchlorate	MA02MW001D	0.0196	N	0.0196	J	Low recovery in MS/MSD.
Perchlorate	MWQ-23	0.0001	NU	0.0001	U	Removal of laboratory qualifier.
Perchlorate	MWQ-23	0.0001	NU	0.0001	U	Removal of laboratory qualifier.

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limits of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a “tentative identification.”	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.	Not applicable.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**
Analysis Date: **10/02/2011 9:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**
Analysis Date: **10/02/2011 9:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**
Analysis Date: **10/02/2011 8:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**
Analysis Date: **10/02/2011 8:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 4:33 PM**
Analysis Date: **10/02/2011 10:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 4:33 PM**
Analysis Date: **10/02/2011 10:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:33 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:33 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:54 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1**
Location ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 9:54 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 10:15 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Analysis Date: **10/02/2011 10:15 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/03/2011 1:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/03/2011 1:45 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	UQ	0.068	U	ug/L	*
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**
Analysis Date: **10/02/2011 10:51 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**
Analysis Date: **10/02/2011 10:51 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**
Analysis Date: **10/02/2011 11:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**
Analysis Date: **10/02/2011 11:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/02/2011 11:32 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**
Analysis Date: **10/02/2011 11:32 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 12:35 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	5.42		5.42		ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 12:35 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**
Analysis Date: **10/07/2011 12:56 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.41	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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J = Estimated
R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**
Analysis Date: **10/07/2011 12:56 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.891	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 1:17 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.5	J	2.5	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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J = Estimated
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N = Presumptive evidence
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**
Analysis Date: **10/07/2011 1:17 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	1.04	J	1.04	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1**
Location ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:37 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.38	J	2.38	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1**
Location ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:37 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	3.55	J	3.55	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**
Analysis Date: **10/07/2011 2:19 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.909	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**
Analysis Date: **10/07/2011 2:19 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Analysis Date: **10/07/2011 2:41 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.75	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
N = Presumptive evidence
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003**
Location ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Analysis Date: **10/07/2011 2:41 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	1.37	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:58 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.31	J	2.31	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6**
Location ID: **NA**
Sample Type: **Trip Blank**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Analysis Date: **10/05/2011 10:58 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.143	U	0.143	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.26	U	0.26	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.312	U	0.312	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.092	U	0.092	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.11	U	0.11	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.12	U	0.12	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.036	U	0.036	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.14	U	0.14	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.068	U	0.068	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.206	U	0.206	U	ug/L

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RL = Reporting Limit
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R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.145	UJ	0.145	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.263	UJ	0.263	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.316	UJ	0.316	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.093	UJ	0.093	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.111	UJ	0.111	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.121	UJ	0.121	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.036	UJ	0.036	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.142	UJ	0.142	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.069	UJ	0.069	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.208	UJ	0.208	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.202	U	0.202	U	ug/L

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D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.202	U	0.202	U	ug/L

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R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
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D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
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RL = Reporting Limit
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	200	**84.3**	**B**	**84.3**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 12:52 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**14.9**		**14.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:25 PM**	**1**	100	**51000**		**51000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**1.06**	**B**	**1.06**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:52 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	100	**48100**		**48100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	15	**5.72**	**B**	**5.72**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	50	**4.42**	**B**	**4.42**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	500	**7120**		**7120**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	1000	**569000**		**569000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:52 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**23**		**23**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**229**		**229**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**14.7**		**14.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:05 PM**	**1**	100	**51300**		**51300**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**11.7**		**11.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	100	**51400**		**51400**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	50	**4.61**	**B**	**4.61**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	500	**7670**		**7670**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:10 PM**	**2**	2000	**556000**		**556000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**26.1**		**26.1**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**248**		**248**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:32 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:33 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 12:01 AM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	60	**5.29**	**B**	**5.29**	**B**	**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**20.7**		**20.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 4:48 PM**	**1**	100	**64100**		**64100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**1.96**	**B**	**1.96**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**13.7**		**13.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:01 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:01 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**61200**		**61200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	15	**10.2**	**B**	**10.2**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C	**10/04/2011 12:01 AM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	500	**7750**		**7750**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	1000	**459000**		**459000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:01 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**1.24**	**B**	**1.24**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**29.6**		**29.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**339**		**339**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**18.1**		**18.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 1:58 PM**	**1**	100	**58600**		**58600**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**12.7**		**12.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	100	**58700**		**58700**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	15	**8.24**	**B**	**8.24**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	500	**7620**		**7620**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	1000	**430000**		**430000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**26.7**		**26.7**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**316**		**316**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:17 PM**	**1**	0.2	**0.09518**	**B**	**0.09518**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:27 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:00 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:00 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**9.84**	**B**	**9.84**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:48 PM**	**1**	100	**114000**		**114000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**25.3**		**25.3**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:00 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	100	**67600**		**67600**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	15	**209**		**209**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	50	**14**	**B**	**14**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**1.43**	**B**	**1.43**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	500	**8540**		**8540**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**117**		**117**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:35 PM**	**25**	25000	**1580000**		**1580000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:00 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**24.5**		**24.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**288**		**288**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**9.44**	**B**	**9.44**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:13 PM**	**1**	100	**119000**		**119000**		**ug/L**

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U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**23.8**		**23.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	100	**73300**		**73300**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	50	**15.2**	**B**	**15.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**2.14**	**B**	**2.14**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	500	**9280**		**9280**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**132**		**132**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:18 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**301**		**301**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:35 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:37 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	200	**78.9**	**B**	**78.9**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:07 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**10.1**		**10.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:55 PM**	**1**	100	**116000**		**116000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**25**		**25**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:07 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	100	**69100**		**69100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	15	**210**		**210**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	50	**14.2**	**B**	**14.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**1.82**	**B**	**1.82**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	500	**8720**		**8720**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**122**		**122**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:43 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:07 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**290**		**290**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**3.85**	**B**	**3.85**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**9.39**	**B**	**9.39**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:30 PM**	**1**	100	**122000**		**122000**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**23.6**		**23.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	100	**73800**		**73800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	50	**15.3**	**B**	**15.3**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	500	**9230**		**9230**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**133**		**133**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:27 PM**	**25**	25000	**1600000**		**1600000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**303**		**303**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:38 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:40 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:15 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:15 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**11.3**		**11.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:02 PM**	**1**	100	**14700**		**14700**		**ug/L**
7440-47-3	Chromium	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**5.68**	**B**	**5.68**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:15 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	100	**9550**		**9550**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	15	**78**		**78**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	50	**30.4**	**B**	**30.4**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	500	**2570**		**2570**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	1000	**472000**		**472000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:15 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**8.39**	**B**	**8.39**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**10.8**		**10.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:37 PM**	**1**	100	**14700**		**14700**		**ug/L**

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J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**5.14**	**B**	**5.14**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**9680**		**9680**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	15	**75.9**		**75.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	50	**31.3**	**B**	**31.3**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	500	**2470**		**2470**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	1000	**481000**		**481000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**2.51**	**B**	**2.51**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**8.64**	**B**	**8.64**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:41 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:46 PM**	1	0.2	0.075	U	0.075	U	ug/L

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:23 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:23 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**23**		**23**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:10 PM**	**1**	100	**39300**		**39300**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**1.21**	**B**	**1.21**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**8.23**	**B**	**8.23**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:23 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	100	**35500**		**35500**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	15	**6.56**	**B**	**6.56**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	50	**4.78**	**B**	**4.78**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:23 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	500	**6040**		**6040**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	40	**6.15**	**B**	**6.15**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	1000	**321000**		**321000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:23 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**26.4**		**26.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**276**		**276**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**23.4**		**23.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:44 PM**	**1**	100	**39900**		**39900**		**ug/L**

DF = Dilution Factor
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J = Estimated
R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**9.63**	**B**	**9.63**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	15	**5.81**	**B**	**5.81**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	50	**5.07**	**B**	**5.07**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	500	**6150**		**6150**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	40	**5.03**	**B**	**5.03**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	1000	**323000**		**323000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**1.52**	**B**	**1.52**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**32.5**		**32.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**305**		**305**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:48 PM**	**1**	0.2	**0.08023**	**B**	**0.08023**	**B**	**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:49 PM**	**1**	0.2	**0.08433**	**B**	**0.08433**	**B**	**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:31 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:31 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**16.3**		**16.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:18 PM**	**1**	100	**39000**		**39000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**2.47**	**B**	**2.47**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**10.2**		**10.2**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:31 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	100	**35800**		**35800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	15	**5.45**	**B**	**5.45**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	50	**5.93**	**B**	**5.93**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	500	**6640**		**6640**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	1000	**531000**		**531000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:31 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**210**		**210**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**15.1**		**15.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:55 PM**	**1**	100	**39100**		**39100**		**ug/L**

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R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	50	**6.66**	**B**	**6.66**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	500	**6710**		**6710**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	40	**4.49**	**B**	**4.49**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	1000	**533000**		**533000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**1.37**	**B**	**1.37**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**27.4**		**27.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**219**		**219**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:51 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:52 PM**	**1**	0.2	**0.09305**	**B**	**0.09305**	**B**	**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	200	**110**	**B**	**110**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 5:30 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**15.2**		**15.2**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 5:30 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	5	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	100	**303000**		**303000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**4.29**	**B**	**4.29**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**13.8**		**13.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/06/2011 5:30 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	100	**283000**		**283000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	15	**3.49**	**B**	**3.49**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	50	**13.1**	**B**	**13.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**1.22**	**B**	**1.22**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	500	**17100**		**17100**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**21.6**	**B**	**21.6**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 1:27 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 5:30 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**4**	**B**	**4**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**347**		**347**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**4.75**	**B**	**4.75**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**15**		**15**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	5	**1.4**	**B**	**1.4**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 3:30 PM**	**1**	100	**339000**		**339000**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**17.6**		**17.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	100	**283000**		**283000**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	50	**13.3**	**B**	**13.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	500	**18300**		**18300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	40	**22.4**	**B**	**22.4**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 11:04 AM**	**25**	25000	**2480000**		**2480000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**6.46**	**B**	**6.46**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**366**		**366**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:16 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:15 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	200	**100**	**B**	**100**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**17.4**		**17.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	5	**1.16**	**B**	**1.16**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:25 PM**	**1**	100	**259000**		**259000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**8.46**	**B**	**8.46**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**15.8**		**15.8**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**47.1**	**B**	**47.1**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**236000**		**236000**		**ug/L**
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:25 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	50	**17.8**	**B**	**17.8**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**8.97**	**B**	**8.97**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	500	**16400**		**16400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**30.3**	**B**	**30.3**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:19 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**14.8**	**B**	**14.8**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**394**		**394**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**3.83**	**B**	**3.83**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**16.9**		**16.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	5	**1.19**	**B**	**1.19**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:01 PM**	**1**	100	**285000**		**285000**		**ug/L**

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R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**4.17**	**B**	**4.17**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**15.6**		**15.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	100	**257000**		**257000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	50	**18.8**	**B**	**18.8**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**9.23**	**B**	**9.23**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	500	**17700**		**17700**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**30.1**	**B**	**30.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:20 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**10.5**	**B**	**10.5**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**413**		**413**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:20 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:18 PM**	**1**	0.2	**0.08165**	**B**	**0.08165**	**B**	**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**10/06/2011 6:22 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:22 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	2.23	B	10	U	ug/L	*
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C	**10/10/2011 2:26 PM**	1	100	50	U	50	U	ug/L	
7440-47-3	Chromium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:22 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 2:26 PM**	**1**	15	**2.1**	**B**	**2.1**	**B**	**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**10/06/2011 6:22 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	40	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-09-7	Potassium	SW-846 6010C	**10/06/2011 6:22 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C	**10/06/2011 6:22 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	0.67	B	10	U	ug/L	*
7440-23-5	Sodium	SW-846 6010C	**10/10/2011 2:26 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	20	**13.6**	**B**	**13.6**	**B**	**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.59	U	1.59	U	ug/L	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	100	50	U	50	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	Chromium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	Potassium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	Sodium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	Zinc	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	5.89	U	5.89	U	ug/L	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:23 PM**	**1**	0.2	**0.10037**	**B**	**0.10037**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:21 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	200	**85.3**	**B**	**85.3**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:29 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**17.3**		**17.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:29 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	5	**1.37**	**B**	**1.37**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:31 PM**	**1**	100	**251000**		**251000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**4.92**	**B**	**4.92**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**13.8**		**13.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**60.5**	**B**	**60.5**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:29 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**255000**		**255000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:31 PM**	1	15	3.12	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	50	**23.7**	**B**	**23.7**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**40.6**		**40.6**		**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	500	**16500**		**16500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**23.2**	**B**	**23.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:34 PM**	**25**	25000	**2100000**		**2100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:29 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**2.01**	**B**	**2.01**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**11**	**B**	**11**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**239**		**239**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.5**		**15.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	5	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:08 PM**	**1**	100	**267000**		**267000**		**ug/L**	

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**3.73**	**B**	**3.73**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.8**		**15.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	100	**258000**		**258000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:08 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	50	**22.1**	**B**	**22.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	40	39.4	B	40	U	ug/L	*
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	40	**20.1**	**B**	**20.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:35 PM**	**25**	25000	**2220000**		**2220000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**234**		**234**		**ug/L**	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:05 PM**	**1**	0.2	**0.10199**	**B**	**0.10199**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:04 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	200	**200**		**200**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:36 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:36 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	5	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:37 PM**	**1**	100	**317000**		**317000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**162**		**162**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:36 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:37 PM**	1	15	6.87	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	50	**9.56**	**B**	**9.56**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**10/06/2011 6:36 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	500	**17000**		**17000**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	40	**29.6**	**B**	**29.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:41 PM**	**25**	25000	**2540000**		**2540000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:36 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**2.45**	**B**	**2.45**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**12.1**	**B**	**12.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**276**		**276**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	5	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:16 PM**	**1**	100	**334000**		**334000**		**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Resul	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**1.33**	**B**	**1.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**15.1**		**15.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	100	**272000**		**272000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:16 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	50	**8.6**	**B**	**8.6**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	500	**17400**		**17400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	40	**29.7**	**B**	**29.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:43 PM**	**25**	25000	**2580000**		**2580000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**13.4**	**B**	**13.4**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**271**		**271**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:26 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:24 PM**	**1**	0.2	**0.09168**	**B**	**0.09168**	**B**	**ug/L**	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	50	525		525		mg/L	
Sulfate	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	100	564		564		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 9:33 AM**	**09/28/2011 3:57 PM**	1	0.01	0.116		0.116		mg/L-N	
Nitrite	**09/27/2011 9:33 AM**	**09/28/2011 4:53 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000357	JN	0.000357	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000266	N	0.000266	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 9:33 AM**	**09/30/2011 7:51 AM**	1	1	172		172		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 9:33 AM**	**09/30/2011 1:00 PM**	1	10	1990		1990		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 9:33 AM**	**09/28/2011 10:13 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 9:33 AM**	**10/06/2011 10:26 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280402**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	50	477		477		mg/L	
Sulfate	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	100	524		524		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 12:21 PM**	**09/28/2011 3:58 PM**	1	0.01	0.085		0.085		mg/L-N	
Nitrite	**09/27/2011 12:21 PM**	**09/28/2011 4:54 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000413	JN	0.000413	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000298	N	0.000298	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 12:21 PM**	**09/30/2011 7:51 AM**	1	1	152		152		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 12:21 PM**	**09/30/2011 1:00 PM**	1	10	1790		1790		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 12:21 PM**	**09/28/2011 10:14 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 12:21 PM**	**10/06/2011 10:28 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA02MW001D**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280407**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	100	1640		1640		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	200	1860		1860		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:46 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:34 PM**	1	0.01	0.035		0.035		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0238	N	0.0238		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0196	N	0.0196	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	142		142		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5620		5620		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:54 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:31 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**FD-1**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280408**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	100	1620		1620		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	200	1940		1940		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:48 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:35 PM**	1	0.01	0.04		0.04		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0212	N	0.0212		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0231	N	0.0231	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	144		144		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5750		5750		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:55 AM**	1	10	6	B	6	J	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:32 AM**	1	0.005	0.0006	B	0.0006	B	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MWQ-23**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280410**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	20	212		212		mg/L	
Sulfate	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	40	396		396		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 8:40 AM**	**09/30/2011 6:32 PM**	1	0.01	0.013		0.013		mg/L-N	
Nitrite	**09/29/2011 8:40 AM**	**09/30/2011 5:40 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 8:40 AM**	**09/30/2011 11:01 AM**	1	1	333		333		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 8:40 AM**	**09/30/2011 1:00 PM**	1	10	1310		1310		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 8:40 AM**	**09/30/2011 10:48 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 8:40 AM**	**10/06/2011 10:38 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280411**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	20	251		251		mg/L	
Sulfate	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	40	329		329		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 11:10 AM**	**09/30/2011 6:35 PM**	1	0.01	0.339		0.339		mg/L-N	
Nitrite	**09/29/2011 11:10 AM**	**09/30/2011 5:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00407	N	0.00407		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00353	N	0.00353	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 11:10 AM**	**09/30/2011 11:01 AM**	1	1	200		200		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 11:10 AM**	**09/30/2011 1:00 PM**	1	10	1130		1130		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 11:10 AM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 11:10 AM**	**10/06/2011 10:39 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280412**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	20	431		431		mg/L	
Sulfate	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	40	514		514		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 1:06 PM**	**09/30/2011 6:37 PM**	1	0.01	0.207		0.207		mg/L-N	
Nitrite	**09/29/2011 1:06 PM**	**09/30/2011 5:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00188	N	0.00188		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00149	N	0.00149	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 1:06 PM**	**09/30/2011 11:01 AM**	1	1	180		180		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 1:06 PM**	**09/30/2011 1:00 PM**	1	10	1720		1720		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 1:06 PM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 1:06 PM**	**10/06/2011 10:40 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010501**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 10:00 AM**	**10/07/2011 9:26 AM**	2000	200	3970		3970		mg/L	
Sulfate	**09/30/2011 10:00 AM**	**10/06/2011 6:50 PM**	1000	200	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 10:00 AM**	**10/01/2011 11:03 AM**	2	0.02	0.511		0.511	J	mg/L-N	*
Nitrite	**09/30/2011 10:00 AM**	**10/01/2011 11:32 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00321	N	0.00321		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00254	N	0.00254	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 10:00 AM**	**10/03/2011 8:56 AM**	1	1	59.3		59.3		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 10:00 AM**	**10/03/2011 11:00 AM**	1	10	9500		9500		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 10:00 AM**	**10/01/2011 9:53 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 10:00 AM**	**10/06/2011 10:06 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010502**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	100	3060		3060		mg/L	
Sulfate	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	200	1810		1810		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 12:36 PM**	**10/01/2011 10:50 AM**	1	0.01	0.899		0.899	J	mg/L-N	*
Nitrite	**09/30/2011 12:36 PM**	**10/01/2011 11:36 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.00314	N	0.00314		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.0027	N	0.0027	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 12:36 PM**	**10/03/2011 8:56 AM**	1	1	79.4		79.4		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 12:36 PM**	**10/03/2011 11:00 AM**	1	10	7640		7640		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 12:36 PM**	**10/01/2011 9:55 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 12:36 PM**	**10/06/2011 10:08 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**EB-1**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Equipment Rinsate**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010504**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.1	0.104		0.104		mg/L	
Sulfate	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.2	0.079	U	0.079	U	mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 8:00 AM**	**10/04/2011 10:48 AM**	1	0.01	0.003	U	0.003	UJ	mg/L-N	*
Nitrite	**10/03/2011 8:00 AM**	**10/04/2011 11:33 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 8:00 AM**	**10/05/2011 8:30 AM**	1	1	0.34	U	0.34	U	mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 8:00 AM**	**10/04/2011 2:30 PM**	1	10	7	U	7	U	mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 8:00 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 8:00 AM**	**10/06/2011 10:11 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010505**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	100	3130		3130		mg/L	
Sulfate	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	200	1580		1580		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 9:32 AM**	**10/04/2011 10:49 AM**	1	0.01	0.245		0.245	J	mg/L-N	*
Nitrite	**10/03/2011 9:32 AM**	**10/04/2011 11:35 AM**	1	0.01	0.003	B	0.003	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00278	N	0.00278		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00277	N	0.00277	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 9:32 AM**	**10/05/2011 8:02 AM**	1	1	79.8		79.8		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 9:32 AM**	**10/04/2011 2:30 PM**	1	10	7610		7610		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 9:32 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 9:32 AM**	**10/06/2011 10:12 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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RL = Reporting Limit
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010506**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	100	3920		3920		mg/L	
Sulfate	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	200	1880		1880		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 11:46 AM**	**10/04/2011 11:04 AM**	1	0.01	0.43		0.43	J	mg/L-N	*
Nitrite	**10/03/2011 11:46 AM**	**10/04/2011 11:41 AM**	1	0.01	0.005	B	0.005	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00406	N	0.00406		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00329	N	0.00329	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 11:46 AM**	**10/05/2011 8:02 AM**	1	1	53.5		53.5		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 11:46 AM**	**10/04/2011 2:30 PM**	1	10	9870		9870		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 11:46 AM**	**10/04/2011 11:13 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 11:46 AM**	**10/06/2011 10:15 AM**	1	0.005	0.0009	B	0.0009	B	mg/L	

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U = Non-Detect
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eDATApro Environmental Data Professional, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	10/5/11

Report to:
Client: Trinity Analysis + Development
Address: 1007 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196A)	Cl/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7955 4081 4998	[signature]	9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	

Report to:
Client: Trinity Analysis & Development Corp
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 833 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/504/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9010/7A	Remarks:	Lab ID
W	9/28/11	1028		x	MA02 MW001D		13	x	x	x	x	x	x	x	x	x	x		7
W	9/28/11	1028		x	FD-1		13	x	x	x	x	x	x	x	x	x	x		8
W	9/28/11	1028			TB-2		3	x											9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	9-29-11	915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only: Trinity	4747	211092804	10/7/11
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (1196A)	Cl/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X	-										13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
Relinquished by: (Signature) FedEx	Received by: (Signature) [signature]	Date: 9/30/11	Time: 0945
Relinquished by: (Signature) 2775 5001 2786	Received by: (Signature)	Date:	Time:

Note: * Hex Chrome 24 hr hold time *

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~21100105~~	10/7/11

Report to:
Client: Trinity ADC
Address: 607 N Kolin Pkwy
Shreveport, FL 33579
Contact: S. Kramer
Phone: 550 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C: ~~1.9~~, 5.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (EPA 314.0)	Perchlorate (DWS 331.0)	Hex Chrome (7196A)	CL/SO4/NO3 (HCL)	Alk/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1030		X	MW14 MW004		15	X	X	X	X	X	X	X	X	X	X	21100105-	1
W	9/30/11	1056		X	MW14 MW001		13	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1100			TB-5		3	X											3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	9/30/11	1500
FedEx	[signature]	10/1/11	900

Note: * 24-hour hold

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804 HMK ~~211100105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Wilson Century
Shalimar, FL 32579
Contact: Jonathan Klamer
Phone: 850 613 ~~7880~~ 0800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Mellow Semi-Annual
Sampled By: Ben Stewart, Jonathan Klamer

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)		Remarks 211100105	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X			4
W	10/3/11	0932		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X			5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X			6
W	10/3/11	0800		X	TB-6		3	X												7

Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/3/11	1400
FedEx 8735 5941 2870	[signature]	10/4/11	900

Note: * 24-hr hold time on Hex Chrome*

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211092804

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GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2891, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870